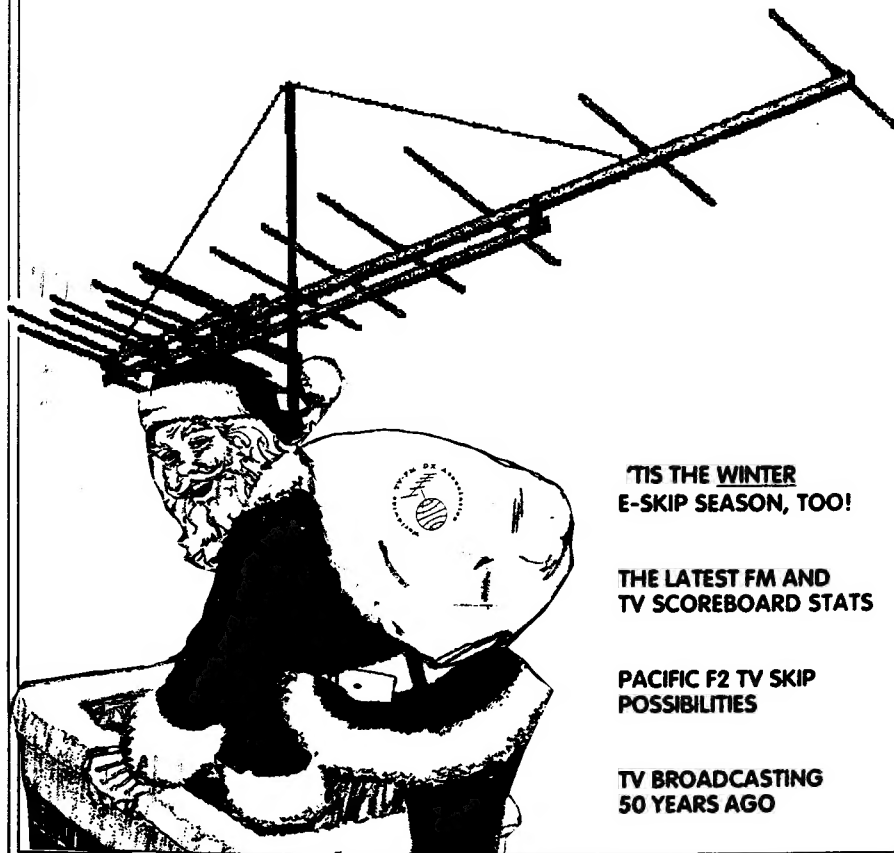


# Vhf-UhfDIGEST

The Official Publication of the Worldwide TV-FM DX Association

DECEMBER 1998

## Season's Greetings!



'TIS THE WINTER  
E-SKIP SEASON, TOO!

THE LATEST FM AND  
TV SCOREBOARD STATS

PACIFIC F2 TV SKIP  
POSSIBILITIES

TV BROADCASTING  
50 YEARS AGO



WORLDWIDE TV-FM DX ASSOCIATION  
PO BOX 501 - SOMERSVILLE, CT 06072



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## WORLDWIDE TV-FM DX ASSOCIATION

*Serving the VHF-UHF Enthusiast*

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION, DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCASTING SIGNALS AT VHF AND UHF. WTFDA IS GOVERNED BY A BOARD OF DIRECTORS: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

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*Original Cover Design:* Harry Hayes

### FROM THE STAFF:

**BUSY:** It may be the time of year, or the phase of the moon, or purely coincidental; but it seems like everyone is literally swamped with work and other non-dxing activities. We don't intend to use that as a total 'cop out', but it is the primary reason that your board of directors hasn't acted on the pending business that has been discussed recently in this column. Please bear with us while we get the loose ends tied up.

**REMINDER #1:** Don't forget the mid-winter E-skip season. It (hopefully) will make its' usual brief appearance about the time Santa makes his rounds. On occasion the winter openings have produced great catches...but...they are sporadic and generally even less predictable than their summer counterparts.

**REMINDER #2:** Join the WTFDA chat group every Tuesday and Friday evening at 10 PM Eastern time on IRCnet channel #wtfdxa. Topics include equipment, tracking down unID'd stations, propagation characteristics, computer resources, and more. Don't know how to access it? Software questions? Check with Mike Bugaj. His e-mail address is <ikon@netcom.com>.

**CONDOLENCES:** Please join us in expressing our sympathy to WTFDA member Frank Aden of Boise, ID. Frank's mother passed away in early November.

**GREETINGS:** From all of the people who work on the VUD each month...from all who contribute to the club in any number of ways...from all whose names appear at the top of this page...please accept very best wishes for the season.

# HAPPY HOLIDAYS!

## WTFDA MAILBOX

Worldwide TV-FM DX Association  
P.O. Box 501, Somersville, CT 06072

Mike Bugaj

### NEW MEMBER

lkon@netcom.com

William Mitchell, Columbus OH

### RENEWALS

We salute the WTFDA troops renewing for another year: Jeffrey Kitsko, Dr. Joel Rosenberg, Robert Delaney, Keith Short, Steve Solomon, Karl Zuk, Eric Nagel, Steve Branch and Richard Gallison. Glad to have you all here!

### MAILBOX MERCHANDISE MALL STRIKES AGAIN

A couple of months ago, if you remember, **Jim Ayers** wrote in looking for a low-band VHF trap. He got one! Jim writes "Just to let you know that the Mailbox Merchandise Mall came through again! Thanks for your listing my interest in finding another Hi-Q trap. Nate Ely had just the model I wanted at a price I couldn't refuse, and it's probably on its way to me at this moment. Yep, the Mailbox did it again!"

### AND MORE FREE STUFF!

Email from **Jeff Kadet**: "While rummaging thru some old reel-to-reel tapes, I found one full of TV station sign-offs circa 1963-65 while I dxed from Needham, MA. I will copy it free for any member who sends a C-60 cassette and return shipping." Jeff also mentions that somewhere he also has a reel with a Boston FM bandscan circa 1965 plus reels with BCB bandscans from 1965-66, but so far he hasn't found them yet.

### HOWDY, PARTNER!

One neat letter: "Hello everyone! I just wanted to drop a note to introduce myself. I am **Luke Steele**, a new WTFDA member. I'm thrilled to be a member, it looks like a GREAT club to me! (yep, it is -Mike). I signed up right after I finished the sample issue! I'm in high school and have only been "seriously" FM dxing since May 28th of this year! I have been a radio fan for four years though, and collect airchecks and all sorts of logo items as well as broadcast industry trade publications. If anyone is interested in sending tape of their unid dx stations to me, I may be able to figure them out. I'd be glad to help you. Also, I'd be interested in learning what you all think is the best FM component receiver, as I will be in the market for one soon. I'm amazed how well my current radio did this summer, but I do want to get a component tuner one day soon. Also interested in getting ahold of RadioWorld, Tuned In, Broadcasting, etc. type magazines, so if you are interested in that please let me know." Luke gives his email address as [midwestairchecks@hotmail.com](mailto:midwestairchecks@hotmail.com), and lives in Vinita, OK. Welcome to WTFDA!

### And now this...BLAST FROM THE PAST!

Someone found our website and popped a question to me regarding the WTFDA TV Station Guide, an oldie-but-goodie publication that was last published in 1981. The crew who worked on this were **Ron LeBlanc**, **Morrie Goldman**, **Harry Hayes**, **John Combs**, **William Fahber**, **Mike Hollis**, **Robert Langridge**, **Steve Sprachman** and **Rick Samford**. There were two editions; the first with a blue cover and the last (the one I have) with a red cover. I mention this because I have had two requests since March wondering if the guide was still available. One person, a radio amateur, said it still is one of the most valuable Es aides he has despite the fact that the latest Guide is 17 years old. And believe it or not, I still have mine tacked to the wall in my basement next to the TV set. Each VHF channel had its own map, and the UHF maps went up to ch83. This guide was one of WTFDA's premier publications, a resource that is still missed today.

## DIGITAL TV UPDATE

Some DTV info found its way onto the qth.email list lately. Here are a couple of posts from **Karl Zuk**: Early indications show that digital signals coexist with analog ones fairly well. If you are familiar with how analog and digital signals look on a spectrum analyzer, they almost fit like puzzle pieces...well, almost. As for antennas: most DTV will be on UHF... (but)...most interesting will be WBBM-DTV on channel 3 in Chicago. This will make an interesting e-skip catch. DTV signals that are below the noise floor can actually be sufficient for pictures, and RF propagation won't change. What will change is the noise and fading of analog. You'll get the signal, or you won't. An often used analogy is that it's like falling off a cliff. DTV has no ghosts. There is sophisticated error correction built into DTV receivers to compensate for fading and data error created by multipath/echoes. Weak signals or interference will produce confetti much like what you see when you lose signal on a DirectTV system. DTV is much more forgiving with weak signals. In fact, signals that are below the noise floor on a spectrum analyzer can still produce full quality pictures. One interesting anomaly that has just arisen: the way the pickup patterns of antenna systems correlates to usable signals seems to be somewhat different between analog and digital. A recent installation in Manhattan proved an eight-bay bow tie array may work better than a parabolic dish for DTV in some circumstances. I'm not sure I quite understand why yet, but we're working on it.

I received another email from someone wanting information on DTV DXing and DTV propagation, which I emailed to **Doug Smith** and he was kind enough to answer the questions and send me a copy: DTV signals are certainly capable of travelling great distances. Bill Draeb in Kewaunee, WI has reported tentative reception of WBBM-DT channel 3 Chicago, about 200 miles, and Fernando Garcia in Monterrey, Mexico believes he's seen WSB-DT channel 39 Atlanta, over 1000 miles distant. But, neither dxe has a digital set...there just aren't enough DTV receivers out there to know yet. I'm 99% certain tropoduct DX will not be a problem with digital. The signals are fairly steady, and there isn't much QRM on the UHF band. DTV signals will also propagate by E-skip, but interference and fading are much worse at VHF. Because of the use of time compression, a brief fadeup of 2-3 seconds may not be enough to yield a picture. On the other hand, if a picture does come in, it will be pretty good if not perfect.

## MONSTER DISHES

Here are some neat posts from the qth.net list regarding large parabolic antennas. So you think your 7' dish is huge... then read on. This is from an engineer in Quebec:

We are still running a 35' parabolic reflector for five FM channels that are 150-200 miles away. This parabolic is on top of a mountain and it is made with 50' wooden poles and the parabolic is made with 2" galvanized pipes for the frame and wire mesh for reflector. In the center is a fiberglass pole and at the end on the focal point of the parabolic is an FM antenna facing the dish. This parabolic is 25-30 years old and still running fine. The FM antenna was changed 15 years ago.

Somebody want to try that on your property? Here's another one:

In the mid 60s the parabolic-torus was also used for the long distance reception of TV signals. As I recall they were frequently used in Canada and manufactured by a Canadian firm. One such antenna was erected in about 1965 in Merced, CA, a CATV system owned and operated by G.E. Cablevision until 1986. The screen was about 90' high and 360' long. The radius of the torus was about 100'. The screen was centered on San Francisco and several antennas were placed along the locus of feed positions to cover all the Bay Area signals. The support structure consisted of steel towers with the appropriate curvature and the screen was constructed using horizontal, stretched steel wires. The screen was difficult to see and soon became dubbed the "bird catcher". It also had a tendency to "sing" during high winds. The torus was the main source of Bay Area signals for a number of years, and later served as back-up to the CARS M/W system that replaced it. It would be interesting to know if the torus is still standing at the old Merced Headend site in Cressy, CA. -That's all, folks! Everybody have a great holiday season!! See you in the WTFDA Chat Room. - Mike

WTFDA Web Site: [www.axs2k.net/fda/wtfda.html](http://www.axs2k.net/fda/wtfda.html)

## \*\*TARGETS FOR F2 SKIP\*\*

Compiled by Mike Fouister ZL3TIC, Christchurch, New Zealand  
.....

## PACIFIC 45 - 55 Mhz

This is a frequency list of TV transmitter video carriers at Zero beat within the range of 45 - 55 Mhz  
\* The Nicam subcarrier is 300khz above the audio carrier and is approx 200khz wide, the subcarrier is 10db below the audio carrier.

## PACIFIC

LOCATION	CALLSIGN	POWER	FREQUENCY	GRID REF
AMERICAN SAMOA	KVZK-TV	50KW	55.24998	AH45
HAWAII	KHONTV	100KW	55.23940	BL01
COOK ISLANDS	CIBS-2#	10W	55.25000	
PHILIPPINE	SABS-CBN	100KW	55.24998	
SOUTH KOREA	AFKN-TV	70KW	55.25000	

#This is a low powered link to feed the Airport Translator

## NEW ZEALAND

LOCATION	CALLSIGN	POWER	FREQUENCY	GRID REF
HIKURANGI	TV2*	100KW	45.26040	RF74
SKY TOWER	TV4*	500W	45.24989	RF73
TE AROHA	TV1*	100KW	45.23980	RF72
KAUKAU	TV1*	100KW	45.25000	RE78
SOUTH SHORE	TV2*	100W	45.23990	RE66
BANKS PENINSULA	TV1*	100W	45.25902	RE66
MT STUDHOLME	TV2*	10KW	45.23980	RE55
MT HEDGEHOPE	TV1*	100KW	45.25000	RE43
MURCHISON	TV2*	2KW	45.26000	RE68
NELSON	TV3*	2KW	45.26030	RE68
WHAKAPUNAKE	TV1*	10KW	45.26040	RF80
KAKA HILL	TV3*	50W	45.25000	RE67
WALLACE PEAK	TV2*	250W	45.25000	RE67
QUEENSBURY	TV2*	100W	45.26040	RE44
WINGATUI	TV2*	1W	45.28340	RE54
REEFTON	TV3*	100W	45.23700	RE57
HASTINGS	TV1*	10KW	45.26090	RF81
KAUKAU	TV4*	10KW	55.23860	RE78
MANGONUI	TV2*	100W	55.24000	RF65
OMAPERE	TV2*	10W	55.24010	RE64
PARAHAKI	TV2*	150W	55.25000	RF63
WHARITE	TV1*	100W	55.25000	RE79
KARORI WEST	TV3*	10W	55.23960	RE78
FERRY MEAD	TV3*	50W	55.26330	RE66
MT CARGILL	TV1*	100KW	55.26050	RE54
WATATARUA	TV1*	100KW	55.24000	RF73
REEFTON	TV2*	20W	55.24970	RE57
LUDLEY	TV2*	50W	55.26000	RE56
CROMWELL	TV2*	500W	55.25000	RE44
ROXBURGH	TV2*	10W	55.25980	RE44
AHURIRI VALL	TV2*	500W	55.24010	RE54

## AUSTRALIA 46 MHz

LOCATION	CALLSIGN	POWER	FREQUENCY	GRID REF
MT ULANDRA	ABMN0	100KW	46.24010	QF35
MT MOWBULL	ANRTQ0*	150KW	46.17180	QF53
BALD HILLNENO		1000W	46.26100	QF58
BUCKERIDGE LOOKOUT	ABWN0	500W	46.23960	QF53
NANNY GOAT HILL	ABSNO	25W	46.23963	QF4
MT CUMBERMELON	ABCNO	15W	46.25740	

\* Stereo subcarrier is 300khz above the audio carrier, uses standard Analog system.

# MALAYSIA 48 Mhz

As this list below is far from complete this is the best information at the time of publication, I would like to thank Steve VK3OT/VK3SIX and Milan OK1XH for their input.

LOCATION	CALLSIGN	POWER	FREQUENCY	GRID REF
KOTAKINIBALU		100KW	48.24000	
EAST MALAYSIA		100KW	48.24470	
MALABO		1KW	48.24760	
SOUTH EAST MALAYSIA			48.24960	
MALAYSIA		100KW	48.25080	
MALAYSIA	LOTS	?	48.25000	
GWERU		17.6KW	48.25800	

# CHINA, USSR, ASIA 48 - 49mhz

LOCATION	CALLSIGN	POWER	FREQUENCY	GRID REF
HOLMS	SRT2		48.25000	
TRADE CENTREEDTV1		150KW	48.25000	LL74
TELERANIRIB2		100KW	48.25800	LM55
YEREVANATV		50KW	49.74200	LN20
DZHALIABADATV1		5KW	49.75000	LM49
KRASNOVODSK		100KW	49.75000	LN60
ASHCHABAD		15KW	49.75000	LM97
ASIATIC REGION			49.73480	
ASIATIC			49.74740	
ASIA			49.74820	
ASIA			49.74860	
ASIA			49.74960	
ASIA (WARELY SIG)			49.74990	
KRIVOI ROG		35KW	49.75020	KN67
VELIKIJE		90KW	49.75090	K056
VLADIVOSTOK		7KW	49.75020	
CHINESE OUTLET			49.75040	
CHINESE (PULSING)			49.75080	
SUZHOUZERO		10KW	49.75800	KP63
KULDIGA		50KW	49.76040	
ROSTOV-ON-DON		35KW	49.76080	KN79
NOVOSOKOLNIKIURS		90KW	49.75780	K056

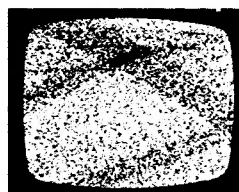
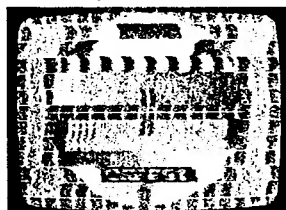
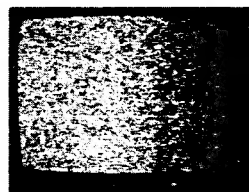
Compiled by Mike Foubister ZL3TIC

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Permission granted to use this list in the VHF/UHF Digest

# F2 TV SIGNALS



# FM NEWS

DECEMBER 1998

Most of the information appearing in this column is courtesy of:  
M STREET JOURNAL - 54 MUSIC SQUARE EAST SUITE 201 - NASHVILLE, TENN. 37203  
PHONE: (609) 883-3321, FAX: (609) 883-5696, E-MAIL: MstreetTom@aol.com



**KEY TO ABBREVIATIONS:**  
&: satellite programming  
AF: New frequency allocation  
**accepted for filing** for a new FM license  
AFA: American Family Association  
CC: **call letter** change  
CL: **city of license** change  
CX: a **construction permit** has been **canceled**  
C1,C2,etc: a change in status to that FM license **class**  
DA: **directional antenna**  
DE: station has been **deleted**  
FC: **format change**  
GA: **granted amendment** to the table of FM allocations  
GE: **granted extension** of construction permit

GX: **granted replacement** of expired permit  
LC: **license to cover** filed (means station is ready to come on air)  
MC: **multiple-city** legal ID  
NC: **no change** yet on a reported change/permit  
ND: **non-directional** antenna  
NO: **not on the air**  
NS: **new station** granted  
NW: **new station** signs on  
OSA: **one-step application** granted for change  
PA: **proposed amendment** to change FM table of allocation  
PC: **power change** on the air (> for increase, < for decrease, when known)

PG: **power change** granted (> for increase, < for decrease, when known)  
QC: **frequency change** occurred  
QG: **frequency change** granted  
RA: **silent station returns to air**  
RE: station **requests extension** on permit  
RX: station **requests replacement** of expired permit  
SG: **slogan change** or update  
SI: **station is silent**  
XA: **dismissed amendment** to FM allocations  
XC: **transmitter site change** occurred  
XG: **transmitter site change** granted



# UNITED STATES

# ALABAMA:

Birmingham: WZRR 99.5 dropped local "Mason and Dixon" for "John Boy and Billy"  
Brewton: WPHG 90.9 XG: 31-18-13 / 87-02-50 LC  
Butler: WKZB 93.5 FC to classic rock (&)  
Cedartown: WJCK 88.3 NC to 27 kW, 1001 ft, DA, C3, RE  
Chato: WFOV 106.1 NC to 12 kW, 472', GE  
Columbiana: WQEM 101.5 NO-RE  
Cullman: WFMH 101.1 to change to cont. Christian Nov. 23<sup>rd</sup> (Birmingham)  
E. Brewton: WGCX 95.7 NO-GX, XA for class change A - C3, CL: Navarre, FL  
Eufaula: WULA 92.7 PC> 26 kW, 298', C2  
Homewood: WEDA 97.3 PG to 640w, 1004 ft, NW, CHR (Birmingham)  
Millbrook: WMCZ 97.1 PG< 1 kW, 790 ft.  
Ozark: WQLS 103.9 FC to JRN soft AC (&)  
Ozark: WAQG 91.7 NW, AFA cont. Christian  
Smiths: WBFA 101.3 NW, CHR "B-101"  
Troy: WZHT 105.7 inc. to 1830 ft. XC: 31-58-28 / 86-09-44



Juneau's Best Rock Mix • FM

# ALASKA:

Bagdad: KBJU 89.3 CC (NS)  
Fairbanks: KWLF 98.1 inc. to 764 ft, C1, XC: 64-55-20 / 147-42-55  
Girdwood: KEUL 88.9 LC  
Holbrook: K201ER 88.1 NS-50w: KCZO  
Homer: KWVV 103.5 FC to JRN soft AC (&)  
Houston: KADX 94.7 NO-RE (4<sup>th</sup>)  
Juneau: KAMT 100.7 NO-RE (4<sup>th</sup>)  
Juneau: KAKZ 102.7 NO-RE (4<sup>th</sup>)  
King Salmon: \*\*\* 92.1 GA: add class A

# ARIZONA:

Chino Valley: KAKP 103.9 LC  
Eagar: KTHQ 92.5 PG< 57 kW, 1230 ft.  
Gilbert: KPTY 103.9 PC> 50 kW, 492 ft.  
Page: KNAD 91.7 NW, info/classical // KNAU 88.7 Flagstaff  
St. Johns: KWKM 95.7 NO-RE  
Tucson: KZPT 104.1 inc. to 328 ft.

# ARKANSAS:

Batesville: KBTA 99.5 PG< 3.4 kW, 426 ft. XG: 35-52-07 / 91-35-14  
El Dorado: KBYB 96.1 inc. to 446 ft. XC: 33-16-16 / 92-39-17  
Eudora: KAVH 101.5 NO-RE  
Gould: KAFN 102.5 NO-GE

**Arkansas:**

Pangburn: \*NS 99.1 6 kW, 328 ft.  
 Wilson: KAFW 103.7 GA: to 94.7 - A, CL: Turrell

**CALIFORNIA:**

Arnold: KBYN 95.9 PG> 980w, 807 ft.  
 XG: 38-22-42 / 120-11-36  
 Bayside: KZPN 91.5 PG> 550w, 508 ft.  
 XG: 40-47-49 / 124-02-47  
 Blythe: K209CY 89.7 NS-50w(v), DA: KAWZ-ID  
 Carlsbad: KMCX 95.7 CC (ex KMCQ) "Mix 95.7"  
 Cedarville: K207CR 89.3 NS-75w: KVIP 98.1  
 Chowchilla: KSKD 93.3 FC to Christian rock // KLRD (Merced)  
 Corning: KCEZ 100.7 FC to oldies & talk  
 Fairmead: KLVY 91.1 LC  
 Ft. Bragg: KLLK 96.7 PG 890w, 2873 ft. class B, XG: 39-3059 / 123-05-21, CL: Willits, CA  
 Goleta: KKSBB 106.3 CC (ex KMGQ) "Santa Barbara"  
 Greenfield: KSEA 107.9 NO-GX (3<sup>rd</sup>)  
 Happy Camp: K216EC 91.1 NS-KAWZ Idaho  
 Holtville: KGBA 100.1 PG> 3 kW, 328 ft.  
 XG: 32-47-40 / 115-29-53  
 Johannesburg: KRAJ 100.9 CC (ex KBHM), NW, Jones AC (&) // KEDD  
 Kings Beach: KHVG 107.7 dec. to 2867 ft, XG: 39-18-48 / 119-52-59  
 King City: K213CR 91.9 NS-80w: KCZO  
 Livingston: KLVN 88.3 LC  
 Lompoc: KAKV 106.7 NO-GE  
 Lompoc: KAOH 104.9 NO-GX  
 Long Beach: KBUE 105.5 PG> 3 kW, 466 ft.  
 Long Beach: KLON 88.1 NC to 35 kW, DA, B, RE  
 Lucerne Valley: K1XA106.5 FC to rock  
 Newport Bch: KBCD 103.1 FC to adult alt. (L.A.)  
 Oak View: K210CH 89.9 NS-10w(v): KTLW  
 Palm Springs: K240CR 95.9 NS-10w(v): KMRO 90.3  
 Pleasanton: K10I-2 101.3 NS-900w(v), DA  
 Pt. Arena: \*NS 102.3 AF  
 Pt. Arena: \*NS 107.1 AF  
 Pt. Reyes Station: KWMR 90.5 CC (NS)  
 Ripley: K201ES 88.1 NS-10w: KEFX-ID  
 Rosamond: KOSS 105.5 PG> 6 kW  
 San Diego: KLVN 106.5 CC (ex KEBN) "La Nueva"  
 San Fran: KFOG 104.5 XG: 37-45-19 / 122-27-06  
 San Fran: KYCY 93.3 CX CP for 45 kW, 518', DA  
 San Jacinto: KWRP 96.1 FC to JRN standards (&)  
 San Luis Obispo: KPAT 88.5 NO-RX  
 San Rafael: KKHI 105.7 PG> 400w (v), 105' XG: 37-31-35 / 120-51-25  
 Santa Ana: KALI 106.3 PG> 6 kW, 302 ft, XG: 33-45-21 / 117-51-18  
 Santa Barbara: K218CP 91.5 NS-3w(v): KAWZ-ID  
 Santa Barbara: KMGQ 97.5 CC (ex KHTY)  
 Santa Monica: KACD 103.1 FC to adult alt. (L.A.)  
 Santa Ynez: KRAZ 105.9 NO-GX (3<sup>rd</sup>)  
 Shingletown: KRKG 105.3 PG> 28 kW, 1243 ft, C1, XG: 40-29-19 / 121-54-23  
 S. Lake Tahoe: KEAR- 106.9 NS-?? w.  
 Stockton: KJOY 99.3 PG> 4.8 kW, 289 ft, XG: 37-59-33 / 121-12-50  
 Vacaville: KUIC 95.3 PG< 460w, 2024 ft.

**COLORADO:**

Canon City: KTLC 89.1 CC (NS)  
 Colorado Sps: KTLF 90.5 PG> 13 kW (v), 2182 ft, class C, XG: 38-44-43 / 104-51-39  
 Dillon: K264AG 100.7 NS-250w: KRKM 106.3  
 Durango: KPTE 99.7 adds Bob & Sheri  
 Evergreen: KXPX 96.5 FC to new rock (Denver)  
 Glenwood Sps: KKCH 92.7 PG< 56 kW (h), 2503 ft, XG: 39-25-07 / 107-22-06  
 La Junta: \*NS 89.1 AF  
 Limon: KAVD 103.1 NO-RE  
 Ouray: KURA 105.7 NC to 25 kW, 203 ft, XG: 38-15-59 / 107-51-07  
 Paonia: \*\*\* 106.5 PA: add class A  
 Parkdale: K220GW 91.9 NS-5w: KRCC 91.5  
 Pueblo: KYZX 104.5 OSA to 103.9, 1,750w., 2158', XG: 38-44-44 / 104-51-42, CL: Pueblo West, Colo.  
 Silverton: \*NS 103.7 AF  
 Yuma: \*\*\* 94.5 GA: add class A  
 Yuma: KNEC 100.9 CC (ex KBJI), NW, to be WW1 standards (&), "Northeast Colorado"

**CONNECTICUT:**

Avon: W209BD 89.7 NS-40w: WGRS 91.5  
 Hartford: WZMX 93.7 FC to classic rock "The Point"  
 Huntington: W220CF 91.9 NS-7w, DA, WGRS  
 New Haven: WPLR 99.1 PG> 16 kW, 836 ft.  
 Norwalk: WEFX 95.9 adds Smith & Barber  
 Storrs: WHUS 91.7 NC to 4.4 kW (v), 1028w (h), 492', DA, B1, XG: 41-48-50 / 72-15-36  
 W. Hartford: W220CH 91.5 NS-37w: WGRS 91.5

**MIX 93.7 FM**

**FLORIDA:**

Carabelle: WOCY 106.5 NO-GE  
 Cedar Key: WRGO 102.7 adds JRN oldies (&)  
 Cross City: \*\*\* 97.7 PA: add class A  
 Crystal River: WAQV 90.9 LC, PG> 3.7 kW, XG: 29-01-54 / 82-27-08  
 Florida City: WMFL 88.5 LC  
 Ft. Pierce: W213AX 107.5 NS-11w(v): WPCS  
 Ft. Pierce: WLDI 95.5 CC (ex WXFG) "Wild 95.5"  
 Gifford: WAVW 94.7 CC (ex WBBE) "Wave 94.7"  
 Havana: WFLV 104.9 adds Bob & Sheri  
 High Springs: WRKG 104.9 adds Lex & Terry  
 Hobe Sound: WOLL 105.5 CC (ex WTPX) "Cool Oldies"  
 Holly Hill: WANX 88.1 NO-GE  
 Holmes Beach: WLLD 98.7 CX CP for 3 kW  
 Indiantown: WPBZ 103.1 PG> 90 kW, C1  
 Jensen Bch: WMBX 102.3 OSA for C1, 100 kW  
 Key Colony Bch: WKYZ 101.3 CC (ex WKKB)  
 Key Colony Bch: WKKB 105.5 PG> 50 kW, 276 ft, XG: 24-41-30 / 81-06-31  
 Key Largo: WMKL 91.7 LC  
 La Crosse: WWFX 99.5 CC (ex WBECQ)  
 Marathon: WKTS 97.7 NO-GE  
 Melbourne: WFIT 89.5 PG> 4.6 kW, 148', DA  
 Miami: WFLC 97.3 XG: 25-58-03 / 80-12-34  
 Murdock: WHHD 89.9 CC (NS)  
 Newberry: WBXY 100.5 CC (ex WNFQ), FC to hot AC "Star 100.5" (Gainesville)

**Florida:**

Panama City: WLHR 107.9 CC (ex WDRK) "Lite 107.9"  
 Panama City: WJTF 89.9 LC  
 Trenton: WDJY 101.7 adds WW1 country (&)  
 Vero Beach: WBBE 101.7 CC (ex WAVW) "B101.7"  
 Vero Beach: WGYL 93.7 FC to ABC a/c (&)

**GEORGIA:**

**WSB-99fm**

Atlanta: WSB 98.5 increase to 1027' XG: 33-45-33 / 84-20-05  
 Cordele: WKKN 98.3 PG> 4.2 kW, 279 ft, XG: 31-55-45 / 83-46-20  
 Dublin: WAWH 88.3 NO-GE  
 Jasper: \*NS 88.3 100w, 3 ft., DA  
 Jesup: WIFO 105.5 NC to 25 kW, 308', DA, C3  
 La Grange: \*NS 91.9 AF  
 Lakeland: WHFE 105.9 NC to 19.5 kW, 374', GX  
 Milledgeville: WLRR 100.7 PA: class A to C3, CL: Social Circle, GA  
 Mt. Vernon: WYUM 101.7 NW, CD Country (&) SG "Sweet Onion Country"  
 Sparta: WPMA 102.7 CC (NS)  
 Springfield: WWSI 103.9 CC (ex WSGF)  
 Toccoa: W220CK 91.9 NS-10w: WLFJ  
**HAWAII:**  
 Hilo: KCIF 90.3 NW, cont. Christian  
 Hilo: KANO 91.1 NO-RE  
 Waipahu: KKHN 102.7 CC (ex KHUL) "Double K Country"

**IDAHO:**

Burley: KBSY 88.5 NW, news/talk // KBSX  
 Burley: KZDX 99.9 FC to modern AC "Buzz"  
 Burley: \*\*\* 106.7 GA: add class C  
 Hayden: KHTQ 94.5 FC to rock (Spokane)  
 Rexburg: KRIC 100.5 PG> 100 kW, 692 ft.  
 Shelley: \*NS 107.9 NO-GX  
 Twin Falls: \*\*\* 101.7 GA: add class A  
 Wallace: KQWK 97.5 NO-GE

**ILLINOIS:**

Cairo: \*NS 88.5 1.5 kW (v), 321 ft. (AFA) (transmitter will be in Kentucky)  
 Carbondale: WCIL 101.5 inc. to 387 ft.  
 Carlinville: WOLG 91.9 CC (ex WCNL) "Our Lady of Guadalupe"  
 Charleston: W213AW 90.5 NS-??w: KVCC-SD  
 Chicago: WRXC 103.5 FC to rhythmic oldies  
 Decatur: WYDS 93.1 FC to CHR "The Party"  
 DeKalb: WDKB 94.9 XG: 41-56-57 / 88-53-44  
 Freeport: WNIE 89.1 NO-RE (2<sup>nd</sup>)  
 Joliet: WJTW 93.5 inc. to 276 ft. XG: 41-32-06 / 88-03-15  
 Kankakee: WAWF 88.3 NO-RX  
 LaSalle: W212BE 90.3 NS-10w(v), DA: WPCS-FL  
 LaSalle: WNIW 91.3 NO-RE (2<sup>nd</sup>)  
 Ramsey: WJLY 93.3 PG< 3 kW, 466 ft, XG: 39-08-06 / 89-06-02  
 St. Joseph: WGNJ 89.3 NO-GE (5<sup>th</sup>)  
 Sterling: WNIQ 91.5 NO-GE

**INDIANA:**

Alexandria: WAXT 96.7 NC to 2.5 kW, 351', GX (2<sup>nd</sup>)  
 Clarksville: WQSH 93.1 NW, modern AC "She 93.1" (Louisville)  
 Indianapolis: WFBQ 94.7 PG> 58 kW, 804 ft.  
 Rochester: W211BC 90.1 NS-170w: WLAB 88.3  
 Veederburg: \*NS 88.5 AF  
 Vincennes: WATI 89.9 NW, AFA cont. Christian PG> 3 kW, 367 ft, XG: 38-41-54 / 87-26-33  
 W. Terre Haute: WVVW 105.5 FC to classic rock "The River"  
 Winamac: WFRI 100.1 no DA, RE (2<sup>nd</sup>)

**IOWA:**

Burlington: KORB 93.5 inc. to 318 ft.  
 Des Moines: KIOA 93.3 PA: class C to C1  
 Des Moines: KLNQ 89.3 CC (NS)  
 Emmetsburg: KEMB 100.1 FC to CHR  
 Keokuk: KRNQ 96.3 NO-RE (5<sup>th</sup>)  
 Keokuk: KMDY 90.9 CC (ex KBJK) "Moody Bible"  
 Keokuk: KOKX 95.3 NC to 100 kW, 794', C1, RE (3<sup>rd</sup>)  
 New London: \*NS 97.3 6 kW, 108 ft.  
 Northwood: KYTC 102.7 OSA to C3, 25 kW, 308'  
 Osceola: KJJC 106.9 GA: to 107.1 - C2  
 Ottumwa: KTWa 92.7 GA: from C3 to C2  
 Sibley: KAJQ 100.3 NO-GX  
 Spencer: KICD 107.7 dec. to 285 ft., XG: 43-09-57 / 95-08-46

**KANSAS:**

Emporia: KAWV 99.5 NW, soft AC "Wave" (&)  
 Ottawa: KCHZ 95.7 PG> 100 kW, 981 ft, DA, XG: 39-00-45 / 95-01-46  
 Plainville: KFIZ 96.9 NW, classic rock  
 Salina: KZBX 104.9 adds JRN soft AC (&)

**KENTUCKY:**

Beaver Dam: WKLY 100.7 NO-RE (4<sup>th</sup>)  
 Carlisle: WSTL 92.1 QC from 100.7, FC to MGS cont. Christian (&) (Lexington), now C3, 25 kW, 308', DA, XG: 38-14-23 / 84-11-41, CC (ex WVCM), SG "Star 92"  
 Cave City: WPTQ 103.7 CC (ex WHHT), FC to classic rock (Bowling Green), "The Point"  
 Georgetown: WXZZ 103.3 PG> 6 kW, 328' XG: 38-03-56 / 84-29-13  
 Horse Cave: WHHT 106.7 CC (ex WXPC) FC to WW1 a/c (&) "Mix"  
 Irvine: WCYO 100.7 QC from 106.1, PG< 9.2 kW, 505', XG: 37-39-40 / 84-08-55  
 Louisville: WFPL 89.3 PG< 21 kW, 774', class B, XG: 38-21-55 / 85-50-24  
 Louisville: WFPK 91.9 PG< 6.8 kW, 774 ft, class B, XG: 38-21-55 / 85-50-24  
 Madisonville: WKTG 93.9 PG> 35 kW, 584'  
 Middlesboro: \*NS 90.1 2.5 kW (v), 590', DA

**94.5 KHTQ**  
**FM** spokane • coeur d'alene g

**Kentucky:**

Midway: WAHY 107.9 NW, urban AC "V108", then FC to urban // WTKT "The Beat" (Lexington), adds Tom Joyner  
 Morehead: WMOR 106.1 QC from 92.1, now C3, PC> 8 kW, 348', XC: 38-10-56 / 83-26-56  
 Reidland: WZZL 106.7 PG> 4.7 kW, 371 ft, XC: ??-37-05 / 88-37-19  
 Somerset: WTHL 90.5 PG> 50 kW, DA, C1  
 Stamping Ground: WKYI 96.1 SI  
 Valley Stn: WRVI 105.9 PC< 1.9 kW, 413 ft, XC: 38-08-13 / 85-56-06  
 Versailles: WJMM 106.3 PG> 3.7 kW, 420 ft, XC: 38-02-51 / 84-29-57  
 Wilmore: WVRB 95.3 QC from 105.9, XC: 37-45-55 / 84-38-06

**LOUISIANA:**

Atlanta: \*NS 106.5 6 kW, 328 ft.  
 Basile: KQIS 102.1 NC to 76 kW, 1105 ft, C1, XC: 30-02-19 / 92-22-15  
 Blanchard: KRVQ 102.1 NW, oldies "River 102" CC (NS) (Shreveport)  
 Lake Arthur: KRAW 107.5 NW country "Crawfish"  
 Leesville: KJAE 92.7 PA: to 93.5 - C3  
 Maurice: KFXZ 106.3 FC to black gospel  
 Natchitoches: KZBL 100.7 QC from 95.9, PC> 25 kW, 246 ft, XC: 31-48-17 / 93-01-27  
 New Iberia: KOQJ 93.7 CC (ex KTBT), FC to oldies "Kool 93.7" (Baton Rouge)  
 Ruston: KBDJ 99.5 OSA to 99.3 - C3, PG> 15.5 kW, 328 ft, ND

**MAINE:**

Searsport: WBYA 101.7 FC to talk // WVOM  
 Thomaston: WBQX 106.9 CC (ex WAVX), FC to classical // WBQQ 99.3 (Augusta)  
 Winter Harbor: WAKN 97.7 RX denied (station must come on by March 9, 1999)

**MARYLAND:**

Berlin: WOCQ 103.9 PC> 6 kW  
 Cambridge: WFBR 94.3 NO-RE (7<sup>th</sup>)  
 Morningside: WPGC 95.5 dec. to 485 ft, XC: 38-51-49 / 76-54-40

**MASSACHUSETTS:**

Athol: WCAT 99.9 CX CP for 2250w, 443', XC  
 Waltham: WCRB 102.5 PG< 8.1 kW, 1151 ft, XC: 42-18-27 / 71-13-27  
 Wilmington: WRQR 105.7 QC from 104.5, now class B, PC> 22.5 kW (v), 735 ft, DA

**MICHIGAN:**

Baraga: WBUM 104.3 LC  
 Benton Harbor: WYKL 94.9 NW, oldies "Kool-FM"  
 Crystal Falls: \*\*\* 96.7 PA: add class A  
 Gaylord: WMJZ 95.3 GA: to 101.5 - A  
 Grand Rapids: WAYG 89.9 CC (ex WBYW), FC to WAY c. Christian (&) "Way FM Grand Rapids"  
 Ironwood: \*NS 88.1 AF (VCY America)  
 Lapeer: WRXF 103.1 CC (ex WWGZ) "Radio X"  
 Manistee: WXYQ 101.5 inc. to 262 ft, XC: 44-12-41 / 86-17-53  
 Midland: W220CG 91.9 NS-12w(v): WPCS-FL  
 Negaunee: WKQS 101.9 OSA to C2, 12 kW, NO-RE (10<sup>th</sup>)  
 Pentwater: WMOM 103.1 NO-GE

Portage: WRKR 107.7 XC: 42-07-44 / 85-20-22  
 Rogers City: WVXA 96.7 XG: 45-21-02 / 83-46-58  
 Traverse City: \*NS 91.5 4427w, 708', DA

**MINNESOTA:**

Alexandria: KIKV 100.7 adds Jones country (&)  
 Caldeonia: KSFF 94.7 CC (ex KHTW) "Soft Hits"  
 Golden Valley: K214DF 90.7 NS-10w: KLOV-FM  
 Grand Marais: WTIP 90.7 NW, variety // KUMD  
 Hutchinson: KKJR 107.1 PG to 106.9 - C3, 7 kW, 554', XG: 45-02-43 / 94-33-32, CL: Dassel, MN  
 Madison: KLQP 92.1 PC> 25 kW, class C3  
 Minneapolis: KBEM 88.5 PC> 2.9 kW, 479 ft, DA, XC: 44-59-44 / 93-11-18  
 Moose Lake: KBFH 107.1 NO-RE (3<sup>rd</sup>)  
 Olivia: KOLV 100.1 adds ABC Real CW (&)  
 Pillager: KBKK 95.9 decrease to 239 ft, XG: 46-15-03 / 94-19-30  
 Rochester: KMSE 88.7 NW, classical // WCAL  
 Spring Valley: KQOL 104.3 CC (ex KVGQ) "Kool 104"  
 Starbuck: KAYF 97.3 XG: 45-31-50 / 95-32-51  
 Superior: KRBR 102.5 adds Bob & Tom  
 Worthington: KITT 93.5 FC to country "Kitten"  
 Worthington: KWQA95.1 adds ABC a/c (&)

**MISSISSIPPI:**

Belzoni: WGNG 106.3 GA: from class A to class C3 - Tchula, MS  
 Bude: \*NS 104.3 AF  
 Clarksdale: WKDJ 96.5 increases to 328 ft.  
 Columbus: W213AY 91.7 NS-10w(v), DA: WPCS-FL  
 Houston: WJZB 88.7 NC to 88.9, 7 kW, GE  
 Jackson: WKXS 96.3 CC (ex WJDX) "Kix 96"  
 Kosciusko: WZKR 103.3 PA: CL: Decatur, MS  
 McComb: WAQL 90.5 NO-GE (2<sup>nd</sup>), PG< 2,750 watts, 390', XG: 31-16-50 / 90-27-05  
 Tupelo: WZLQ 98.5 FC to hot AC

**MISSOURI:**

Bolivar: K212DA 90.3 NS-13w: KWND 88.3  
 Bonne Terre: KDBB 104.3 FC to adult contemp.  
 Campbell: KFEB 107.5 NW, country  
 Cassville: KOMC 100.1 NC to 36 kW, 577', GE  
 Cedar Hill: KNLH 89.5 LC  
 DeSoto: KDJR 100.1 FC to CNN Headline news  
 Gordonville: KCGQ 99.3 adds Bob & Tom  
 Knob Noster: KCVQ 89.7 LC  
 LaMonte: KPOW 97.1 NW, classic rock "K-Power"  
 Malden: KMAL 92.9 adds WW1 a/c (&)  
 Marble Hill: KBJJ 97.3 NO-RE  
 Mt. Vernon: KHTO 106.7 PG<17.5 kW, 394 ft.  
 Rolla: KDAA 97.5 FC to Jones soft AC (&)  
 Salem: KKID 95.9 FC to clas. rock "Outlaw"  
 Scott City: KGKS 93.9 NW, modern AC "Kiss"  
 Southwest City: KWMMQ 100.3 PC> 6 kW  
 Sunrise Beach: KCRL 90.3 NW, religion "Life"  
 Trenton: KTTN 92.3 FC to JRN classic CW  
 Versailles: KTKS 95.1 PG> 17 kW, 407', C3  
 Wheeling: KULH 105.9 NO-GE

**MONTANA:**

Billings: KCMT 96.3 NW, country "Thunder"  
 Billings: KBEX 105.1 NO-RX (2<sup>nd</sup>)  
 Boulder: \*\*\* 107.7 GA: add class A  
 Bozeman: K212DC 91.1 NS-170w: KLOV-FM  
 Cut Bank: \*NS 102.7 NO-RX  
 Ennis: \*NS 98.7 NO-GE  
 Stevensville: \*NS 104.5 GA: add class A  
 Whitefish: \*NS 105.1 GA: add class A  
 Wolf Point: KVCK 92.7 FC to oldies

**NEBRASKA:**

Bennington: KTNP 93.3 PA: from class A to C3  
 Hastings: \*NS 90.9 AF (AFA)  
 Humboldt: \*\*\* 96.7 GA: add class A  
 Kimball: KBFZ 100.1 LC  
 Lincoln: KUCV 90.9 QG to 91.1, 20 kW, XG: 40-31-06 / 96-46-06  
 McCook: KSWN 93.9 NO-GE, adds Steve & DC, LC  
 Plattsmouth: KOTD106.9 GA: from class A to C3  
 Wayne: KTCH 104.9 FC to oldies (&), change expected on November 24<sup>th</sup>

**NEVADA:**

Cruscent City: K218CS 91.5 NS-93w(v): KUNR  
 Elko: \*\*\* 94.5 GA: add class C3  
 Ely: KHIX 96.7 PA: to class C - Carlin, NV  
 Sun Valley: KXXL 93.7 NO-RE (2<sup>nd</sup>), LC

**NEW JERSEY:**

East Orange: WFMU 91.1 PC< 1250 w, 515 ft, XC: 40-47-19 / 74-15-20  
 Manahawkin: WJNM 89.9 NO-RE, PG> 200w (v), 259 ft, XG: 39-41-57 / 74-14-05  
 Ocean City: WTKU 98.3 PC> 6 kW, DA

**NEW MEXICO:**

Bosque Farms: KEXT 104.7 dec. to 843 ft, XC: 34-46-12 / 106-51-42  
 Carlsbad: KBFV 106.1 PG 39 kW, 558 ft, XG: 32-34-22 / 104-05-32  
 Conchas: K202CX 88.3 NS-41w(v): KENW 89.5  
 Corrales: KSWA 95.1 PC> 100 kW, 433 ft, C1, XC: 35-04-04 / 106-46-46  
 Ft. Sumner: K219DP 91.7 NS-120w(v): KENW 89.5  
 Gallup: KKOR 94.5 dec. to 1246 ft., XC: 35-36-22 / 108-41-26  
 Grants: KTHR 103.7 inc. to 1358 ft.  
 Las Vegas: \*\*\* 101.5 GA: add class A  
 Las Vegas: \*\*\* 102.9 GA: add class A  
 Questa: \*\*\* 103.7 GA: add class C1  
 Santa Fe: KLSK 104.1 FC to clas. hits "Eagle"  
 Taos: KHYF 99.9 NO-RE (3<sup>rd</sup>)

# 104.1 KLSK

**NEW YORK:**

Babylon: WBAB 102.3 PG> 6 kW  
 Fenner: W210BH 89.9 NS-10w: WXXC  
 Fredonia: W203AW 88.5 NS-10w: WCOT 90.9  
 Glens Falls: WLJH 90.9 NO-GE  
 Hague: WWFY 93.7 GA: from class A to C3, CL: Addison, VT  
 Hornell: WSQA 88.7 NO-RE  
 Johnstown: WSRD 104.9 PG< 570w, 1050 ft, DA, CL: Altamont, NY, XG: 42-37-00 / 74-00-45  
 L. Ronkonkoma: WSHR 91.9 NC to 6 kW (cir), GE  
 Lowville: W201CB 88.1 NS-10: WSLJ  
 Mexico: WVOQ 103.9 CC (ex WNDN)  
 Mt. Kisco: W205BM 88.9 NS-190w: WMNR 88.1  
 Penn Yan: W220CJ 91.9 NS-10w: WCIV 88.9  
 Riverhead: WRCN 103.9 FC to classic hits  
 Saugerties: \*NS 92.9 dec. to 289 ft., DA, XG: 41-59-20 / 74-01-08  
 Stillwater: WQAR 101.3 CC (ex WJKE), FC to a/c "Star 101" (Albany)  
 Syracuse: WNTQ 93.1 XG: 42-56-48 / 76-01-28  
 Watertown: WCIZ 93.5 FC to classic rock, expect a move to 93.3 soon  
 Westport: WMEX 102.5 PG> 650w, 295 ft, XG: 44-13-14 / 73-24-35  
 Wethersfield Twp: WNUC 107.7 PG> 18 kW, DA

**NORTH CAROLINA:**

Atlantic Bch: \*NS 91.5 dec. to 384 ft.  
 Hendersonville: WMYI 102.5 PC< 19 kW, 1811 ft, XC: 35-13-20 / 82-32-58  
 Raleigh: WCPE 89.7 inc. to 1187 ft, DA, C  
 Roanoke Rapids: WXQD 91.1 CC (NS)  
 St. Pauls: WUKS 107.7 PC< 5.2 kW, 656 ft, class C3, XC: 34-52-17 / 79-08-49  
 Wilmington: \*NS 89.7 6 kW, 144', DA  
 Wilmington: WMNX 97.3 adds Doug Banks, inc. to 882 ft., XC: 34-03-00 / 78-04-56  
 Wilmington: WGNL 102.7 adds Delilah  
 Wilmington: WHQR 91.3 PC> 13.5 kW, 1932', DA

**NORTH DAKOTA:**

Beulah: KAVG 97.9 NO-RE  
 Cavalier: KAOC105.1NW, country (&)  
 Devils Lake: K210CJ 89.9 NS-250w: WAFR-MS  
 Dickinson: KCAD 99.1 PC> 100 kW, 794 ft.  
 Fargo: KDSU 91.9 FC to news/classical/jazz  
 Fargo: \*NS 89.5 AF  
 Grafton: KXPO 100.9 FC to ABC hot AC (&)  
 Grand Forks: KUND 89.3 FC to news/classical/jazz  
 Hettinger: \*NS 93.5 NO-RE  
 Mayville: KMAV 105.5 PG> 25 kW, 328 ft, C3, XG: 47-29-57 / 97-21-03  
 Tioga: \*NS 104.1 100 kW, 590 ft.  
 Waihalla: KAUJ 106.7 LC  
 Williston: \*NS 98.5 100 kW, 794 ft.

**OHIO:**

Akron: WONE 97.5 XG: 41-03-53 / 83-34-59  
 Cleveland: WDOK 102.1 XG: 41-22-58 / 81-42-07  
 Gahanna: WCVO 104.9 PC> 6 kW, 308 ft.  
 Greenfield: WVNU 97.5 PC< 2.3 kW< 538 ft.  
 Lancaster: WJZA 103.5 PC< 4 kW, 403 ft, XC: 39-51-52 / 82-38-19  
 New Lexington: WWJM 105.9 QC from 106.3  
 Shelby: WAUI 88.3 NO-RE  
 Westerville: WEGE 103.9 CC (ex WAXV) "Eagle"



**Ohio:**

Willard: WHHA 96.9 CC (NS)

**OKLAHOMA:**Eufaula: KCES 102.3 NC to 102.5 - C3, 10.5 kW (cir), 505', XC, RE (2<sup>nd</sup>)

Fairview: K203CS 88.5 NS-48w: KJIL 99.1 KS

Lawton: KMGZ 95.3 CX CP for 6 kW, 302 ft.

Lawton: KLAU 101.5 GA: to 101.3 - C1

McAlester: KMCO 101.3 inc. to 617 ft.

Madill: KMAD 102.3 PA: to 102.5 - C2, CL:

Whitesboro, TX

Magnum: KHIM 97.7 LC

Perry: KOSB 105.1 CC (ex KVCS) "B105"

Snyder: \*NS 100.3 NO-GX

Soper: \*\*\* 96.5 GA: add class A (replaces

102.7 - A)

Stillwater: KSPI 93.7 adds JRN adult alt. (&amp;)

Sulphur: KIXO 100.9 QG to 106.1 - A, PC&lt; 2650

watts, 499ft, XC: 34-39-03 / 96-59-24

Tishomingo: KAZC 88.3 LC

Woodward: KMPQ 95.9 NO-RE

**OREGON:**

Cave Junction: K219CL 91.7 NS-10w(v): KAWZ-ID

Cherryville: KLVP 88.7 PC&gt; 3.7 kW (v), 1w (h),

1745 ft., C1, XC: 45-20-01 / 121-42-45

Depoe Bay: KDEP105.5 NO-GE (2<sup>nd</sup>)

Hood River: K216EB 91.1 NS-5w: KLOV-FM

Klamath Falls: K218CQ 91.5 NS-50w: KLVN

Langlois: K215CS 90.9 NS-10w: KAWZ-ID

Manzanita: \*\*\* 94.9 PA: add class A

Sisters: \*NS 89.3 AF

**PENNSYLVANIA:**

Bellwood: WALY 103.9 PG&gt; 380 w, 918 ft, XG: 40-34-01 / 78-26-32

Holidaysburg: WMXV 104.9 PC&gt; 730w, 905 ft.

Lancaster: WROZ 101.3 PC&lt; 6.7 kW, 1309'

Mansfield: WNBQ 92.3 LC

Phillipsburg: WUBZ105.9 PG&lt; 710 w, 951 ft, DA, XG: 40-47-34 / 78-10-29

Ridgebury: WREQ 96.9 CC (ex WMKB), RA with MGS - cont. Christian (&amp;) (Elmira, NY)

Warren: W218BF 91.5 NS-13w: WCOT 90.9 NY

Wilkes-Barre: W216BG 91.1 NS-9w(v): WPCS-FL

Youngsville: WTMV 88.5 100w, -335 ft. CC (NS)

**SOUTH CAROLINA:**

Atlantic Bch: WSEA 100.3 NW, classic rock

"Pirate" (Myrtle Beach)

Charleston: WALC 100.5 CC (ex WLLC) "Alice"

Orangeburg: WKSO 103.9 NC to 9.2 kW, GX

**SOUTH DAKOTA:**

Brandon: \*\*\* 100.1 GA: add class A

Dell Rapids: KSOB 95.7 LC

Redfield: KNBZ 97.7 OSA to C1, 100 kW, 561 ft,

XG: 45-12-30 / 98-40-20

Wessington Sps: KGGK 98.3 inc. to 899'

XG: 43-45-18 / 98-24-39

**TENNESSEE:**

Henderson: WHHM 107.7 PC&gt; 25 kW, 308', C3

Memphis: WYPL 89.3 NC to 100 kW, 1302 ft,

class C, GE (2<sup>nd</sup>)

Shelbyville: WBIA 88.3 CC (NS)

Tullahoma: WAUT 88.5 NW, AFA cont. Christian

(&amp;)

**TEXAS:**

Beaumont: KYKR 95.1 NC to 1069', class C, XC, RX

Beaumont: KTCX 102.5 SG "Magic 102.5"

Benavides: KXTM 107.7 NO-RX (5<sup>th</sup>)

Big Sandy: KBAU 90.7 RA with NPR, smooth jazz

(not sure whose running this, as their university, Ambassador, closed in 1997)

Brenham: KULF 94.1 NC to 25 kW, C3, GE

Brownfield: \*NS 88.5 LC

Brownsville: KBNR 88.3 NC to 5.5 kW, GE

Center: KDET 102.3 GA: to 100.5 - A

Centerville: KAJG 105.9 NO-GE

Comanche: KOXZ 94.3 NO-RX

Corrigan: \*\*\* 100.1 PA: add class A

Cross Plains: \*\*\* 96.9 PA: add class C3

Denison: KIKM 101.7 GA: C1 to C, CL: Azle, TX

Devine: KSJL 92.5 CC (ex KTXK)

Dilley: \*NS 98.9 NO-RX

Eagle Pass: KINL 92.7 NC to 20 kW, C3,

XC: 28-43-57 / 100-29-34

Edna: KGUL 96.1 LC

Fort Worth: KTXQ 102.1 SG "Magic 102"

Franklin: KZTR 101.9 FC to modern AC / top 40

"B102" (Bryan)

Gainesville: KDOS 107.9 CC (ex KECS), NO-GE

Granbury: KDXT 106.7 inc. to 1338 ft,

XG: 32-16-31 / 98-01-22

Gregory: KKPN 104.5 LC

Helotes: KONO 101.1 PC&lt; 98 kW, 991 ft.

Hereford: KPAN 106.3 PC&gt; 30 kW, C2

Huntsville: KUST 99.7 NW, country // KVST

Ingram: KTXI 90.1 NW, info &amp; classical (with

programming from KPAC and KSTX)

Jacksonville: KLJT 102.3 PA: from class A to C2

Jourdanstown: KBOP 95.7 OSA to C3, 12.5 kW,

462 ft.

Killeen: KLNC 93.3 CC (ex KAJZ) "Lonestar

Country" (Austin)

Leonard: \*\*\* 102.5 PA: add class A

Littelfield: KAIQ 95.5 NO-RE (5<sup>th</sup>)

Lubbock: KLLL 96.3 XG: 33-31-04 / 101-51-23

McCamey: KPBM 95.3 CC (NS), LC

Mineral Wells: K213CS 90.5 NS-250w: KCZO

Navasota: KMBV 92.5 FC to very broad AC (incl.

The Knack, Hootie, Grand Funk, etc.) briefly,

but then returned to JRN soft AC (&amp;)

New Ulm: KMIA 92.3 NO-GE

Olney: \*\*\* 104.3 GA: ad class C2

Onley: KRZB 97.5 GA: move here from

CL: Archer City, TX

**Texas:**

Rio Grande City: \*\*\* 95.1 PA: add class A

Roxton: \*\*\* 102.7 XA to add class A

Sterling City: KKCNC 96.5 NW, a/c (San Angelo)

"Power 96.5"

Tahoka: KMMX 100.3 XG: 33-26-31 / 101-52-40

Tyler: KDOK 92.1 CX CP for 1.6 kW, 449'

**UTAH:**

Spanish Fork: KOCY 106.5 PC&gt; 45 kW, 2758 ft, C

XC: 40-16-50 / 111-56-06

**VERMONT:**

Brandon: WEXP 101.5 NO-GE

Marlboro: WSSH 101.5 NC to 2.6 kW, 344' XC: 42-

53-15 / 72-43-02

Vergennes: WXPX 96.7 PG&lt; 1 kW, 797 ft., CL:

Willsboro, NY, XG: 44-24-12 / 73-26-02

White River Jct: WWSH 95.3 CC (ex WKXE)

**VIRGINIA:**

Bowling Green: WWUZ 96.9 NW, classic hits

Buena Vista: WREL96.7 NC to 10 kW, B1, RE (10<sup>th</sup>)Deltaville: WSRV 92.3 NW, oldies on Jan. 1<sup>st</sup>.

Dillwyn: WBNN 105.3 CC (ex WBKS)

Franklin: W217AY 91.3 NS-13w(v): WJYJ

Petersburg: WVST 91.3 NC to 2.2 kW, GE (4<sup>th</sup>)

Radford: WNRV 101.7 CC (ex WRIQ)

Richmond: WJRV 105.7 CX CP for 3 kW, 328 ft, XC:

37-30-11 / 77-30-08

Tappahannock: WRAR 105.5 FC to WW1 a/c (&amp;)

Williamsburg: WKLR 96.5 inc. to 453 ft., CL: Ft. Lee,

VA, XC: 37-20-22 / 77-24-31

Windsor: WSVY 107.7 NC to 1.7 kW, 620', RE (3<sup>rd</sup>)**WASHINGTON:**

Chehalis: \*\*\* 104.3 GA: add class A

Davenport: KKRS 97.3 NO-GE, CC (NS)

Iwaco: \*NS 103.9 25 kW, 328 ft.

Moses Lake: K212DB 90.3 NS-250w(v): KAWZ-ID

Olympia: KRXY 94.5 noted on the air

Othello: K215CT 90.9 NS-145w(v): KOLU 90.1

Royal City: KRCW 96.3 CX CP for 800 w., OSA for

C2, 19.5 kW, 790 ft, XG: 46-45-55 / 119-16-51

Seattle: KIRO 100.7 adds Howie Carr 12pm to

3pm (from WRKO Boston)

Spokane: KNJY 103.9 NC to 1417', XC, C2, GE

(5<sup>th</sup>)

Wenatchee: K204DD 88.7 NS-100w: KLOV-FM

Wenatchee: K207CS 89.3 NS-20w: KAWZ-ID

Yakima: KYPL 91.1 NO-GE

**WEST VIRGINIA:**

Charleston: W212BD 90.3 NS-10w: KLOV-FM

Elkins: WBHZ 91.9 CC (NS)

Milton: WAMX 106.3 adds John Boy &amp; Billy

Pocahontas: WRVZ 98.7 FC to ABC classic rock (&amp;)

Romney: WDNZ 100.1 FC to Disney children's

(Cumberland)

**West Virginia:**

St. Albans: WKLC 105.1 adds Bob &amp; Tom

Westover: WZST 100.9 CC (ex WMQC) "Star

100.9" (Morgantown)

Wheeling: W204BE 88.7 NS-10w(v): WPCS-FL

**WISCONSIN:**

Eau Claire: WVCV 90.5 PG&lt; 900w, 312 ft.

Madison: WZEE 104.1 PC&gt; 12 kW, 1004 ft.

Madison: WSMU 91.7 NO-GE (2<sup>nd</sup>)

Mauston: WRJC 92.1 PC&gt; 200w, 571 ft.

Merrill: WMZK 104.1 PC&gt; 24 kW, 617', C2

Portage: WBKY 95.9 NO-GX

Shawano: WOWN 99.3 adds JRN oldies (&amp;)

Shell Lake: WGMO 95.3 FC to ABC standards &amp; talk

(&amp;)

Sister Bay: WHDI 89.7 CC (ex WAQB)

Sturgeon Bay: WRGX 88.5 NW, contemp. Christian

CC (ex WAZM) (Green Bay)

Whitehall: WHTL 102.3 FC to standards 6-9 am,

11-1 pm, 2-6 pm, ABC country otherwise (&amp;)

Woodruff: W207BC 89.3 NS-170w: WRVM 102.7

**WYOMING:**

Afton: KUWA 91.3 NW, news, alt., clas. //

KUWR Laramie

Casper: KTRS 104.7 CC (ex KYOD), FC to

modern AC "Kiss FM", PC. 18 kW, 1811', C1

Casper: KWYY 95.5 CC (ex KTRS), FC to cntry

PC&gt; 100 kW, 1870 ft.

Casper: KHOC 102.5 NW, hot AC (&amp;) CC (ex

KKRR), "Heart of Casper"

Casper: KMLD 97.3 PC&gt; 18 kW, 1771 ft, C1

Diamondville: \*NS 105.3 NO-RE

Green River: KFRZ 92.1 NW, WW1 country "Freeze"

Kemmerer: KAOX 107.3 NO-GE (2<sup>nd</sup>)

Laramie: K211DM 90.1 NS-250w(v): WPCS-FL

Midwest: KRVK 107.9 NW, classic rock "River"

**N. MARIANNA ISLANDS:**

Garapan: \*NS 101.1 NO-RE

**PUERTO RICO:**

Aguadilla: WTPM 92.9 XC: 18-18-47 / 67-11-06

Juana Diaz: WCAD-2 105.7 NS-83w

Manati: WNRT 96.9 inc. to 951 ft.



CANADA

**ALBERTA:**

Lake Louise: \*NS 93.9 30w, // CKIS 96.9

Peace River: \*NS 102.1 8765w, // CKYL

**BRITISH COLUMBIA:**

Invermere: \*NS 97.3 50w, // CKIS 96.9 AB

**MANITOBA:**

Winnipeg: \*NS 95.9 450w, community radio

**NEW BRUNSWICK:**

Fredericton: CJPN 90.5 wants PG&gt; 1.56 kW, XG

**QUÉBEC:**

St-Georges-de-Beauce: CHJM 99.7 CC (ex CIRO-FM), FC to French Hot AC

Trois-Pistoles: CIBM2 104.9 PG> 183 w.

Trois-Pistoles: CJFP4 ?? wants PG< 42 w.

**SASKATCHEWAN:**

Saskatoon: CKOM102.1 CC (ex CHSN), FC to gold-based AC "NTR"

**PIRATE WATCH:**

• **PITTSBURGH, PA.** The FCC, with cooperation from the FBI, closed down Mark Lange's "Radio Carson", which operated on 91.7.

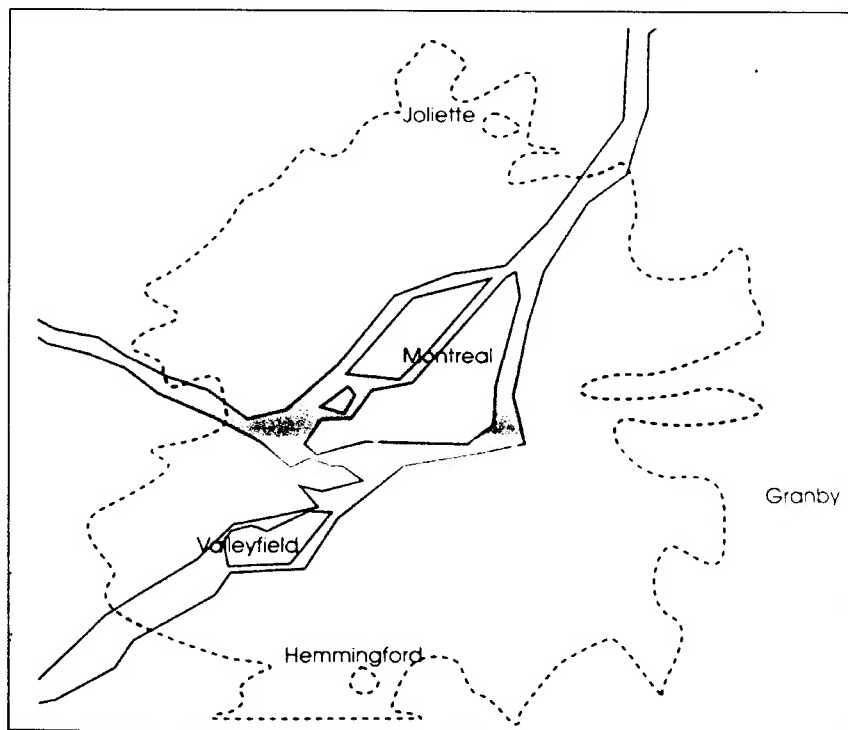
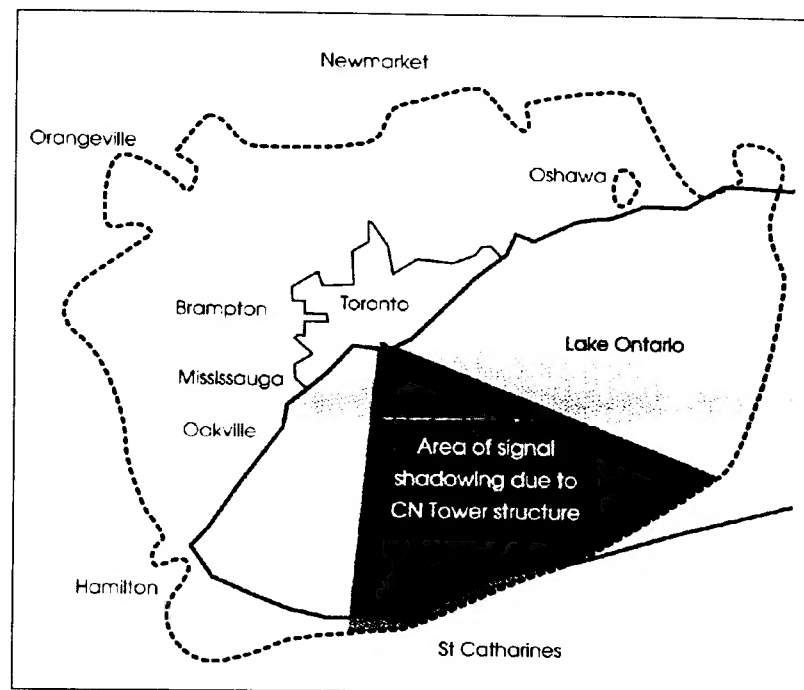
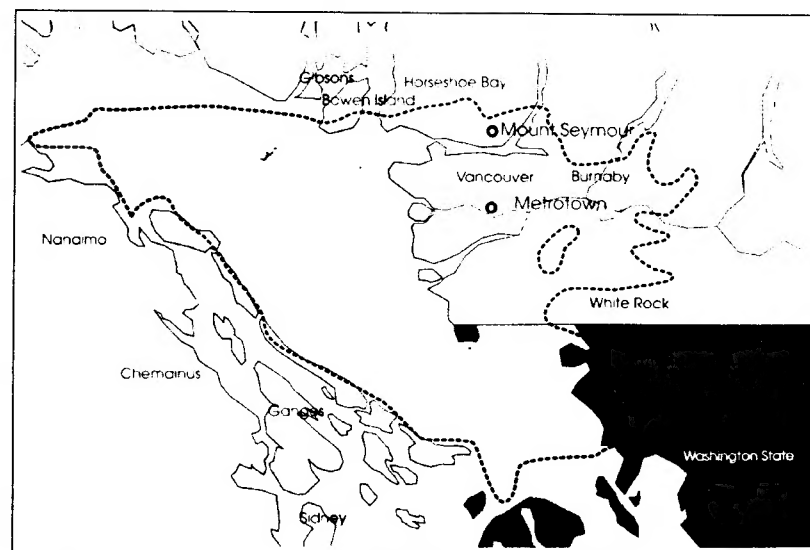
• If you are an FM station that stays silent for too long, eventually the FCC will catch up to you. This month the Commission canceled licenses for KAGJ 89.5 Ephraim, Utah (Snow College), and KYDZ 90.1 Cody, Wyoming (Park County

School District #6). Both stations had not broadcasted for twelve consecutive months.

• Thanks to Jeff Kitsko, and M Street, for the information on the 91.7 pirate in Pittsburgh. Jeff also mentions that WDRV 96.1 is burying their legal ID among background noise, and that "The River" can be heard on the web at <http://www.bendmornings.com/happy.html>

• Saul Chernos was kind enough to send along the July 1998 edition of *RADIO EXTRA* "Canada's Newsletter on Digital Audio Broadcasting". The publication contains frequencies and stations allocated to the new band in Vancouver, Montréal, and Toronto, which has appeared in earlier FM NEWS columns. What this also has, however, is expected coverage maps for the stations! I have scanned them in and they appear below

**HAPPY HOLIDAYS!** Greg

**MONTREAL****TORONTO****VANCOUVER**



# TV NEWS

Douglas E. Smith W9WI  
1385 Old Clarksville Pike  
Pleasant View, TN 37146-8098  
w9wi@bellsouth.net

December 1998

\*: Non-commercial station  
nc: No Change  
+/-: Channel offsets (plus,  
z/n: minus, zero, and none)  
^: Digital TV station

## APPLICATIONS FOR NEW STATIONS

St	Ch	ERP	Ht.	City	Applicant	Latitude	Longitude
CA	34^	200	419	Vallejo	KPST [66]	37-45-19	122-27-06
CO	*18^	1000	435	Denver	KRMA [6]	39-43-48	105-14-00
GA	50^	200	578	Bainbridge	WTLH [49]	30-40-51	83-58-21
KY	32^	906	492	Paducah	WPSD [6]	37-11-31	88-58-53
MI	*43^	200	318	Detroit	WTVS [56]	42-26-52	83-10-23
OR	27^	712	508	Portland	KOPB [10]	45-31-21	122-44-46
OR	33^	750	523	Salem	KWBP [32]	45-50-58	??-??-??

## CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

St	Ch	ERP	Ht./Call	City	Applicant	Latitude	Longitude
AZ	36^	819	534	Mesa	KPNX [12]	33-20-00	112-03-48
CA	40^	18.2	566	San Diego	KNSD [39]	32-41-48	116-56-06
CA	45^	206	446	S. Francisco	KBHK [44]	37-45-19	122-27-06
CT	10^	7.88	342	New Haven	WTNH [8]	41-25-22	72-57-06
DC	27^	75	177	Washington	WETA [26]	38-53-30	77-07-55
GA	27^	846	332	Atlanta	WAGA [5]	33-47-51	84-20-02
IN	9^	15.9	284	Indianapolis	WISH [8]	39-53-25	86-21-20
IN	25^	898	294	Indianapolis	WRTV [6]	39-53-58	86-12-02
MO	*18^	48	355	Kansas City	KCPT [19]	39-04-59	94-28-49
NC	34^	370	352	Charlotte	WSOC [9]	35-15-41	80-43-38
OH	10^	13.7	280	Cincinnati	WCPO [9]	39-07-30	84-29-56
PA	46^	50	293	Allentown	WFMZ [69]	40-33-52	75-26-24
PA	25^	727	311	Pittsburgh	KDKA [2]	40-29-38	80-01-09
PA	48^	501	289	Pittsburgh	WPXI [11]	40-27-48	80-00-16
WA	39^	603	230	Seattle	KIRO [7]	47-38-01	122-21-20
WA	13^	23.3	936	Spokane	KXLY [4]	47-55-18	117-06-48
WI	20^	50	453	Madison	WHA [21]	43-03-21	89-32-06

### New-station permits expired, dismissed, etc.:

St	City	Ch	# permits	St	City	Ch	# permits
CA	Ramona	64	1	WV	Franklin	30	1
WA	Walla Walla	9	1				

## APPLICATIONS TO CHANGE EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AZ	12-	nc	555	KPNX	Mesa		
FL	14+	27.6		W14CI	Fort Myers		
IN	23z	nc	294	WNDY-TV	Marion		
LA	*13z	nc	nc	KLTM-TV	Monroe	32-11-50	92-04-14
MN	11-	nc	455	KARE	Minneapolis		
MO	5-	nc	327	KSDK	St. Louis		
OR	*10z	nc	526	KOPB-TV	Portland	45-31-21	122-44-46
OR	2n	0.06		KO2NW	Reedsport	43-43-21	124-05-40
PA	23-	700	nc	WATM-TV	Altoona		
SC	43z	0.31		W43BS	Columbia	34-00-04	81-02-05

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## LPTV DISPLACEMENT APPLICATIONS

St	City	Call	Fm	To	St	City	Call	Fm	To
AL	Dothan	WJUN-LP	69	5z	NM	Gallina	K61BS	61	49+
AZ	Phoenix	K39BI	39	18z	NM	Gallup	K63BD	63	23+
CA	Indio	K63GG	63	8+	NM	Gallup	K67BP	67	46
CA	S.L. Obispo	KCCF-LP	20	50	NM	Santa Rosa	K74BC	74	30+
CO	Alamosa	K63AN	63	31+	NM	Tucumcari	K63BR	63	32
CO	Bayfield	K65CI	65	46+	NV	Las Vegas	K61GV	61	35+
CO	Carbondale	K22CE	22	38	NV	Reno	K25FX	25	33+
CO	Glenwood Sprs	K65CK	65	42	NY	Troy	WNNG-LP	26	51z
CO	Mt. Massive	K63ET	63	51	OK	Moore	K65GU	65	17z
CO	Woodland Park	K61GX	61	33+	OK	Tahlequah	K45ER	45	52z
FL	Fort Myers	WEVU-LP	7	4	OK	Tulsa	K65GY	65	51
FL	Orlando	W27BB	27	29-	OR	Florence	K60DQ	60	45-
GA	Hinesville	W39BV	39	41-	OR	Heppner	K63BS	63	28+
GA	Savannah	WGSA-LP	38	50z	OR	John Day	K68CB	68	26+
IN	Indianapolis	W53AV	53	65-	OR	Powers	K61EH	61	19+
KY	Corbin	W20AS	20	29	OR	Prineville	K68AE	68	16-
KY	Louisville	W08CT	8	66	OR	Tri-City	K19AD	19	22-
LA	Houma	K30EM	30	60+	SC	Spartanburg	W66CA	66	27
MA	Dennis	W67BA	67	33z	SD	Sioux Falls	K07UP	7	26z
MO	Columbia (1)	K29DM	29	53	TN	Chatt.	WYHB-LP	39	15
MO	Columbia	K61GQ	61	58	TX	Beaumont	K46CM	46	25z
MO	Columbia	K65GI	65	47z	TX	C. Christi	K13WD	13	12z
MO	Columbia (1)	K67GP	67	54z	TX	Laredo	K61GY	61	43+
NC	Asheville	W64CI	64	19-	TX	McAllen	K67HC	67	21z
NC	Roanoke Rps.	WNVN-LP	20	69z	TX	Round Rock	KHPZ-LP	64	15z
NE	O'Neill	K34CU	34	43z	TX	San Antonio	K63GD	63	43
NM	Chama	K69CH	69	34z	TX	San Antonio	K68EI	68	51+
NM	Crownpoint	K65FJ	65	30-	UT	Ogden	K5VN-LP	21	49
NM	Datil	K68EG	68	48-	WA	Grays River	K31FB	31	17+
NM	Forrest	K61AF	61	31-	WI	Milwaukee	WMKE-LP	8	7+

(1) These stations have also applied to change their principal communities to "Washington & St. Louis", MO. (a move of about 200km)

## APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AZ	34-	0.85		K34EE	Cottonwood		
CA	31^	310	nc	KTLA-DT	Los Angeles		
CO	33+	1.12		K33EW	Woodland Park	38-59-13	105-04-08
HI	*38+	206	573	KAIE	Honolulu		
HI	*44z	206	573	KWBN	Honolulu		
MA	23^	100	332	WHSB-DT	Marlborough		
MD	43-	1.3		W43BP	Cresaptown		
ND	46z	8.7		K46DY	Bismarck		
NE	17z	3890	186	KTVG	Grand Island	40-43-44	98-34-13
NM	35+	31.1		K35FC	Albuquerque		
OK	47z	2500	482	KWHB	Tulsa	35-59-52	95-42-43
OR	24n	nc	nc	KNMT	Portland	45-30-58	122-43-56
UT	24z	nc	246	KAZG	Ogden		
VA	49-	5000	376	WPXV	Norfolk	36-48-31	76-30-13
WI	55z	nc	347	WFXS	Wittenberg	45-03-22	89-27-54

The KNMT [24] change is for the auxiliary backup transmitter. The Honolulu changes are not typos - both stations have applied to change to the same power and HAAT. I strongly suspect these stations are under common control, though they do have different licensees. (both are non-commercial so could be legally commonly owned) W48CI has applied to change its principal community from Ft. Lauderdale, Florida to Miami.

## CHANGES GRANTED TO EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AZ	45z	4530	nc	KUTP	Phoenix		
CA	49+	7.34		K49DD	Sacramento	38-33-59	121-28-43
CA	53+	nc	nc	K53DO	Sacramento	38-38-53	121-05-51
CA	8+	245	706	KSEW	Salinas	36-45-23	121-30-05
FL	14+	27.6		W14CI	Fort Myers		
FL	10+	nc	307	WPLG	Miami		
FL	35+	5010	nc	WOFL	Orlando		
GA	55+	nc	nc	WSST-TV	Cordele	31-53-35	83-48-18
GA	64-	1148	223	WGNM	Macon	32-45-51	83-33-32
LA	*13z	nc	nc	KLTM-TV	Monroe	32-11-50	92-04-14

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## CHANGES GRANTED TO EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
MB	7z	0.72		CBWIT	The Pas		
MI	31+	2090	nc	WPXD	Ann Arbor		
NV	19z	nc	nc	K19EC	Mapleton	(fm. 19n)	
OR	34z	805	305	KLSR-TV	Eugene	44-00-04	123-06-44
SC	40z	5000	313	WFBC-TV	Anderson		
SC	43z	0.31		W43BS	Columbia	34-00-04	81-02-05
TX	32+	nc	nc	KTAB-TV	Abilene	32-16-38	99-35-51
TX	3-	nc	288	KIII	C. Christi		
TX	56z	4570	457	KETK-TV	Jacksonville	31-54-20	95-05-05

WSST [55]'s and KTAB [32]'s changes are only corrections; the actual tower heights haven't changed.

## LPTV DISPLACEMENTS GRANTED

St	City	Call	Fm	To	St	City	Call	Fm	To
AL	Selma	W24CK	52	24	MN	Park Rapids	K32EW	24	32
AZ	Chloride	K49EU	64	49z	MN	St. James	K30FN	32	30+
AZ	Flagstaff	K35FH	62	35+	MO	Lebanon	K64FO	24	64+
AZ	L. Havasu C.	K47FQ	64	47+	MS	Biloxi	W35BM	29	35+
AZ	Miami	K41ER	63	41z	MT	Missoula	K32EU	40	32
AZ	Phoenix	K28FV	68	28-	NC	Durham	W1WW-LP	59	26z
CA	Indio	KDFX-LP	40	33	NM	Gallina	K36EY	65	36
CA	Merced	KMPH-LP	63	17+	NM	Lordsburg	K52FW	61	52+
CA	Stockton	K23EY	21	23z	NM	Portales	K30FM	62	30
CO	Fleming	K44FL	23	44	NM	Ruidoso	K49EW	61	49
CO	Grand Jctn.	K25FZ	16	25+	NM	Tierra Amarilla	K36EU	60	36
CO	Peetz	K20FS	21	20	NV	Hawthorne	K20FR	65	20
CO	Peetz	K26FM	54	26	NV	Walker Lake	K14JY	61	14
CO	Peetz	K28FW	56	28	OK	Tulsa	K29DZ	63	29
CO	Peetz	K30FO	58	30	OR	Cave Jctn.	K47ER	61	47
FL	Inglis	WYKE-LP	49	48	OR	Corvallis	K67HH	14	67-
FL	Panama City	W54CU	68	54z	OR	John Day	K02PK	8	2
FL	Tallahassee	W45BU	17	45z	OR	Portland	K35FG	62	35-
FL	Tallahassee	W56DV	51	56	OR	Redmond	K25GA	18	25-
GA	Augusta	W58CZ	65	58-	SD	Wagner	K50FH	55	50
GA	Hazlehurst	W56DU	63	56	TN	Memphis	W44BS	36	44-
GA	Savannah	W57CT	67	57+	TX	Fredericksbg	KHPF-LP	58	44z
IA	Cedar Rapids	K17ET	61	17z	TX	Midland	K40FJ	31	40+
IA	Waterloo	K44FK	65	44-	TX	San Angelo	K44FJ	19	44+
ID	Boise	K31FD	25	31n	TX	Texarkana	K41EQ	52	41-
IL	Alton	W50CH	57	50+	TX	Victoria	KCPV-LP	55	57-
IL	Bloomington	W51CT	64	51	TX	Wichita Fls	K44FI	24	44-
IL	Champaign	W58DA	34	58-	VA	Chesapeake	W1TD-LP	65	23+
IL	Sterling	W48CK	61	48+	WA	Clarkston	K49EV	18	49
KS	Lawrence	KUJH-LP	14	45	WI	Bloomington	W22CI	49	22
MI	Kalamazoo	WOKZ-LP	38	50+	WI	Grantsburg	W24CL	39	24
MN	Alexandria	K67HI	40	67	WI	Green Bay	W49CB	68	49-
MN	Chandler	K22FL	31	22	WI	Ladysmith	W25CM	63	25-
MN	Chandler	K26FJ	61	26z	WI	Oshkosh	W17CF	34	17z
MN	Chandler	K38FK	63	38z	WI	Waupaca	W66DC	55	66-
MN	Donnelly	K47FS	63	47+	WV	Charleston	W56DT	53	56-

Changes/displacements expired, dismissed, etc.:

St	City	Ch	Call	St	City	Ch	Call
AL	Dothan	23	WJUN-LP <69	NM	Tucumcari	38	K67AI
CA	Redding	50	K34DF	NY	Ellensburg	49	W49BI
CA	San Diego	26	K25DU	NY	Troy	47	WNGN-LP <26
CA	Santa Barbara	41	K19DE	OK	Oklahoma City	21	K65GU
FL	Kissimmee	29	W27BB	TX	Beaumont	25	K46CM
MO	Columbia	43	K54FQ	TX	Corsicana	25	K25FW
NC	Asheville	19	W64CI	TX	McAllen	21	K67HC
NM	Crownpoint	30	K65FJ				

## CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CO	33+	1.12		K33EW	Woodland Park	38-59-13	105-04-08
IA	20-	5000	441	KWKB	Iowa City	41-43-28	91-21-07
MD	43-	1.3		W43BP	Cresaptown		
ND	46z	8.7		K46DY	Bismarck		
NM	35+	31.1		K35FC	Albuquerque		
PA	64^	500	390	WPVI-DT	Philadelphia		
TN	19-	7		W19BS	Jackson	35-42-25	88-44-34
TN	59-	6		W59DJ	Memphis		
TX	65+	22		KGBS-LP	Austin	30-19-10	97-48-06

## CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
TX	2+	nc	413	KBEJ	Fredericksbg.	30-08-13	98-36-35
TX	31n	0.543		K31FA	Hillsboro		
TX	57n	7		K57FE	McAllen		
TX	65-	31.8		K65ES	San Antonio		
VT	54+	9.05		W54CV	Barre	44-10-26	72-36-39
WA	33+	3690	717	KWPX	Bellevue	47-30-17	121-58-05
WI	46z	3090	280	WAZW	Antigo	45-03-33	89-26-10
WI	16-	10.3		W16AY	Whiting		
WI	24-	11.2		W24BV	Whiting		
WI	40z	12.5		W40BC	Whiting		
WI	43+	12.7		W43BK	Whiting		
WI	62-	13.9		W62DA	Whiting	(xW36BP)	

W54CV moves from channel 63 (W63CG) at Burlington.

## TECHNICAL CHANGES ON THE AIR

St	Ch	Call	City	What happened
CA	4-	K04NV	Red Bluff	power 194>200 watts, change from zero offset
DC	30z	WMDO-LP	Washington	move from ch. 48, power 35<20.7KW.
FL	32z	WWWB	Lakeland	power 3020>5000KW, tower 271>332m, drop circular polarization
FL	20-	W20AY	Melbourne	power 1.22>12.2KW
MA	66z	WHSB-TV	Marlborough	tower 326>356m, move a few hundred meters west
MI	59z	W59AZ	Rockford	power 1.74>2.31KW, move about 10km northwest, change from no offset, and city from Grand Rapids.
MN	21z	K21AK	Appleton	power 648>1,170 watts, move about 50km north-northwest, change from no offset, and city from Morris.
MN	47-	KXLT-TV	Rochester	power 107>1000KW, tower 104>343m, move about 40km southwest.
NC	52z	W52CW	Charlotte	move from channel 68 (W68BL), power 8.05<7.3KW, move about 18km northeast
NV	23+	K23CJ	Glendale	power 946>1,430 watts; correct coordinates
NY	51z	W51BA	Syracuse	power 13.1>21.8KW, move 3km west.
NY	26-	WNGN-LP	Troy	power 10<9.66KW, change from zero offset, move 20km west, city from Hoosick Falls.
OH	39+	W39CG	Cincinnati	move from ch. 35z (X-W35BA), power 10.4>18.6KW.
OR	46n	K46AS	Coos Bay	power 0.855>14.7KW, move a few hundred meters northwest.
OR	11-	K11SZ	Oakridge	power 69<34 watts, move 5km NW.
OR	33z	K33CJ	Wasco	power 600>1,060 watts, move 17km east-northeast, change from no offset
OR	41z	K41CL	Wasco	same as K33CJ.
PA	8+	WGAL	Lancaster	power 112<110KW, tower 415>418m.
TX	20-	K20BW	San Antonio	power 55.7>57.9KW, correct coordinates.

Victor Frank is seeing K30BI San Francisco on both channels 30 and 28. The signal on channel 28 is rather weak. K30BI is being displaced by KQED-DT and has applied for channel 28 (with the same facilities currently in use on channel 30) but I have no record of this being granted.

## NEW STATIONS ON THE AIR OR REQUESTING OPERATING LICENSE

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CA	19+	10.0		K19DH	Indio	33-48-07	116-13-27
CA	53+	10.0		K53FL	Indio	33-48-07	116-13-27
CA	10z	0.162		K10OG	Lompoc	34-44-25	120-26-42
CA	17+	12.1		K17EF	Lompoc	34-44-25	120-26-42
CA	24+	10.0		K24DM	Oxnard	34-19-52	119-01-20
CA	24-	2.03		K24EJ	S. Luis Obispo	35-21-38	120-39-21

## NEW STATIONS ON THE AIR OR REQUESTING OPERATING LICENSE

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CT	28+	1.26		W28CA	Bridgeport	41-09-58	73-13-03
IA	43z	36.9		K43FB	Des Moines	41-35-21	93-32-17
NC	30-	1820	539	WRAY-TV	Wilson	35-49-53	78-09-50
ND	46z	9.52		K46DY	Bismarck	46-49-38	100-46-28
NM	25n	1.23		K25FI	Mora	35-57-39	105-21-13
OH	40-	4170	174	WLMB	Toledo	41-44-41	84-01-06
TX	69n	6.34		K69FW	Clear Lake	29-35-36	95-03-13
TX	57n	7.50		K57FE	McAllen	26-15-23	98-13-43
UT	39n	12.2		K39DH	Ogden	41-09-57	112-00-52
WY	44n	1.02		K44FA	Evanston	41-21-04	110-53-50

## STATIONS DELETED/DISMISSED/OFF AIR/ETC.

St	Call	St	Call	St	Call	St	Call	St	Call
IA	K80AW	MO	K63FY	MS	W69DY	NE	K62FC	TX	K35EU
KS	KWCV [33]	MS	W58CV	ND	K4IEK	TX	K30DN	TX	K40EX

K59GC Plainview. TX was not seen during a visit to that city

## CALL CHANGES

Was:	Now:	City:	Ch	Was:	Now:	City:	Ch
WSIT-LP	WKRP-LP	Washington, DC	42	W17AI	WDEM-LP	Columbus, OH	17
W32BM	WDMA-LP	Columbus, GA	32	WWLF-TV	WOLF-TV	Hazleton, PA	56
W53BR	WDTA-LP	Columbus, GA	53	WWLF-DT	WOLF-DT	Hazleton, PA	9
RAWJ	KSCC	Hutchinson, KS	*36	WOLF-TV	WSWB	Scranton, PA	38
K65FV	KFAM-LP	Crowley, LA	65	WOLF-DT	WSWB-DT	Scranton, PA	31
KCWB	KCWE	Kansas City, MO	29	K07UP	KCPO-LP	Sioux Falls, SD	-
W12CS	WPRQ-LP	Clarksdale, MS	12	KAIO	KTLM	R Gde. C, TX	40
K32AP	KCSI-LP	Windsor, ND	32	"Trans-Guide"	K54FA	San Antonio, TX	54
W18AL	WNDR-LP	Syracuse, NY	18	NEW	WFXS	Wittenberg, WI	55
W60BY	WMBO-LP	Syracuse, NY	60	WKRP-TV	WLPX-TV	Charleston, WV	29

The DTV call changes in Pennsylvania are assumed. This is the first time a call change has been granted to a NTSC station after its DTV permit was applied for.

## PROGRAMMING CHANGES

Call:	Location:	Programming:
W15AZ	Alabaster, AL	sold to Birmingham religious school.
KJOI-LP [33]	Bakersfield, CA	VCC shopping.
K32EQ	Fresno, CA	new, Al (America One); VCC shopping overnight. IDing as KMCF-LP which may be legal calls.
K20CS	Porterville, CA	Knowledge TV; PSN shopping overnight.
WBSV-TV [62]	Venice, FL	Sold to Univision.
K59FM	Iowa Falls, IA	from CNN Headline News to TV Land.
KNIN [9]	Caldwell, ID	drops WB, now UPN only.
K17ED	Payette, ID	new, 3ABN.
K65FV	Crowley, LA	relays KAJN-LP [40] Lafayette.
WKBD [50]	Detroit, MI	drops Fox Kids, now UPN only.
W68CH	Detroit, MI	AIN, some local urban programs.
WADL [38]	Mt. Clemens, MI	adds Fox Kids.
W11CF	Whitehall, MI	Outdoor Channel.
K45CA	C. Girardeau, MO	sold to WTCT [27], religious.
KMTF [10]	Helena, MT	Fox? (saw "Fox 10 Helena" on .sig line of Boise engineer)
KTEL-LP [15]	Albuquerque, NM	Telemundo.
K17DD	Albuquerque, NM	3ABN. (not KCHF [11])
KAZQ [32]	Albuquerque, NM	INSP religion.
K45DL	Albuquerque, NM	VCC. (not religion)
K48AM	Albuquerque, NM	Spanish, sometimes parallel KLUZ [41, Univision] but not 100.
K59DB	Albuquerque, NM	Spanish music videos, continuous ID "KDBTV59 VIDEOS".
K50DY	Des Moines, NM	translator of KCIT [14], Fox/UPN.

## PROGRAMMING CHANGES

Call:	Location:	Programming:
W51BA	Syracuse, NY	new, WPCB [40] (religion).
W23BP	Watertown, NY	PIN home shopping.
WBQZ-LP [34]	Watertown, NY	from Sci-Fi Channel to Bloomberg.
W39CG	Cincinnati, OH	America's Store (HSS).
WLMB [40]	Toledo, OH	new, Pax.
K42CC	Sioux Falls, SD	noted with test pattern.
KBNW-LP [44]	Sioux Falls, SD	noted with test pattern.
K53EG	Sioux Falls, SD	IDing as "KSCB", religious.
XHMTA [11]	Matamoros, TM	from Azteca 7 to Azteca 13 (XHDF)
XHOR [14]	Matamoros, TM	from Azteca 13 to Azteca 7 (XHMT)
K35CG	Bovina, TX	translator of KCIT [14], Fox/UPN.
K25CQ	Childress, TX	translator of KCIT [14], Fox/UPN.
K57FE	McAllen, TX	new, "Praise TV" videos.
K44DA	Plainview, TX	Telemundo. (not KUTV).
K60BW	Quitague, TX	translator of KCIT [14], Fox/UPN.
W48BI	Richmond, VA	sold to Value/Vision.

## OTHER STUFF & FORUM

Thanks to Bill Eckburg, Victor Frank, Frank Aden, Dennis Smith, John Ebeling, Fernando Garcia, Pat Dyer, Jeff Kadet, and Keith Smith for information appearing elsewhere in this month's column. Note the "fake calls" for the new Fox LPTVs in the Youngstown, Ohio market. (William Hepburn's ETVDX report, page 48 of the November VUD) W62BT is signing "WYFX", and W40AM as "WLFX". These call changes are not official. (at least not yet)

Fernando is seeing two new stations with unID color bars. He believes the one on channel 62 to be Ciudad Hidalgo, and the one on channel 64 to be from Sabinas Hidalgo. Both towns are in Nuevo Leon - the latter about 250km south of Laredo, Texas. (I can't find Ciudad Hidalgo on my map)

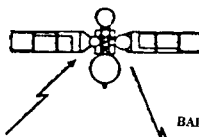
Jeff Kadet wondered why he'd never seen K80AW Dubuque, still listed in the FCC database. He emailed KWWL [7], K80AW's primary, and got an answer from their VP of Engineering Jim Ohmsted. Ohmsted wrote: "In 1979 KWWL and KCRG needed to relocate the receive/transmitting tower (I presume the translator tower-ds) and replace some very undependable equipment. It was determined that continued operation of the translators provided very little benefit and translator operation for both stations was discontinued." No translators of KCRG are listed in the FCC database. It looks like the FCC forgot to remove K80AW. Jeff also says new KFPP [39] is a pest on channel 45 at his location - K44AB Keokuk, Iowa picks up K38AB, and also puts out KFPP one channel up.

Dennis Smith has a bunch of good California LPTV info this month. He's also noting KADY [63] Ventura carrying news broadcasts produced by KEYT [3]. All "Key News" shows, whether airing on channel 3 or channel 63, are also simulcast on KEYT Radio, 1250AM. (formerly KTMS) On a similar vein, Dennis saw promotions for KJEO [47] newscasts airing on KGMC [43] Clovis/Fresno. Finally, on this subject, KSBY [6] has been promoting its news as available on 87.7 FM. Actually, all channel 6 TV stations can be heard on 87.75FM, if your radio will tune that low.

I visited New Mexico in mid-November. Don't move to Albuquerque if you enjoy VHF/UHF DX; the city is in a deep valley - and is surrounded by strong locals. I think I saw more local TV signals there than I do in Chicago! In Hobbs, KHFT [29] was not seen. KASY [50] is on cable there, and the KASY ID reads "Albuquerque - Hobbs" (they most certainly don't cover both cities with one transmitter!) but doesn't include the KHFT calls. On the other hand, I heard an ad for KASY on a Hobbs radio station, and it mentioned "UHF channel 29" By the way, KASA [2]'s radio ads in cities outside Albuquerque also include a brief voice-over of the local UHF (translator) and cable channels. Also in Hobbs, I saw a mystery KOAT [7] translator somewhere around channel 58.

John Ebeling sent an item about the possible shutdown of the Grand Marais, Minnesota translators. (K63BI/K65BJ/K67CT) I hope to have room to use it next month

# SATELLITE NEWS



GEORGE W. JENSEN  
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BALTIMORE MD 21206-4220

And now for the shortest column of the year. At least as of this writing - November 11th. It has certainly been a year of many changes and additional services with the coming of the compressed video of the 4DTV receiver. The only thing that could enliven things for the next column would be problems created by the November Meteor Shower. We'll see next time. Now to the few changes.

Galaxy 1  
24 - Golden Eagle Broadcasting - religious  
Morelos/Solidaridad - still confusion as to who is who here - 16 - Clara Vision strong  
8 - feeds - including something called CNN Reforma  
14 - feeds  
13 - Teleton - now highly spor beamed away from me

Anik E2 - Ku  
280 - CTV Sports Net - PPV  
Spacenet 4  
16 - Pax Net  
Telstar 5 -  
800 - BET On Jazz - International  
970 - Adam and Eve  
971 - Spice these were on Telstar 4  
972 - Hot Spice

PanAmSat 5  
702 - Mundo Ole  
additional comp. dig channels have been added -  
720 - 729 - unknown providers as yet..  
Intelsat 8??  
the Colombian feeds - comp. video 4DTV - are slowly being closed. e.g. - encrypted

And that folks - believe-it-or-not is it.  
Have a Merry Christmas. Happy New Year, Happy Hannukah.

73's  
George

**VALUEVIEW**  
More Variety, More Value!



Logos for various channels: A&E, AMC, Cartoon Network, CNN, CN, Discovery Channel, ESPN, ESPN2, ESPN3, ESPN4, ESPN5, ESPN6, ESPN7, ESPN8, ESPN9, ESPN10, ESPN11, ESPN12, ESPN13, ESPN14, ESPN15, ESPN16, ESPN17, ESPN18, ESPN19, ESPN20, ESPN21, ESPN22, ESPN23, ESPN24, ESPN25, ESPN26, ESPN27, ESPN28, ESPN29, ESPN30, ESPN31, ESPN32, ESPN33, ESPN34, ESPN35, ESPN36, ESPN37, ESPN38, ESPN39, ESPN40, ESPN41, ESPN42, ESPN43, ESPN44, ESPN45, ESPN46, ESPN47, ESPN48, ESPN49, ESPN50, ESPN51, ESPN52, ESPN53, ESPN54, ESPN55, ESPN56, ESPN57, ESPN58, ESPN59, ESPN60, ESPN61, ESPN62, ESPN63, ESPN64, ESPN65, ESPN66, ESPN67, ESPN68, ESPN69, ESPN70, ESPN71, ESPN72, ESPN73, ESPN74, ESPN75, ESPN76, ESPN77, ESPN78, ESPN79, ESPN80, ESPN81, ESPN82, ESPN83, ESPN84, ESPN85, ESPN86, ESPN87, ESPN88, ESPN89, ESPN90, ESPN91, ESPN92, ESPN93, ESPN94, ESPN95, ESPN96, ESPN97, ESPN98, ESPN99, ESPN100.

WITH Multi Channel  
cinemax HBO  
OR  
SHOWTIME FLIX sundance  
\$26.50 / \$68.95 / \$136.50 / \$264.95

WITH Multi Channel  
cinemax HBO  
OR  
SHOWTIME FLIX sundance  
\$37.25 / \$105.00 / \$205.00 / \$399.95

Prices indicate monthly/quarterly/semi-annually/annually



# STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records,  
States Stats and Personal Best Statistics of FM/TV DXers.

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## FM SCOREBOARD

DECEMBER 1998

FNAME	LNAME	LOCATION	TOTAL	88-92	ES	MS	AU	USA	DC	DC	CN	MX	FO	TPU	YB	AS OF:	DATE	
PAT	DYER	TX SAN ANTONIO	3037	471	2485	78	0	44	+	1	4	22	6	77	70	06/30/97	98	
FRANK	MERRILL	IL MACOMB	2636	450	1181	10	8	48	+	1	8	8	3	68	85	02/20/96	96	
KEITH	PUGH	AL NEW HOPE	2380	382	1324	108	18	47	+	1	7	14	6	75	83	12/28/95	96	
GREG	CONIGLIO	NY WILLIAMSVILLE	2107	341	1112	18	32	41	+	1	8	2	5	57	85	02/08/98	98	
ANDY	BOLIN	IL CHARLESTON	2059	331	799	103	286	45	+	1	7	5	3	81	61	09/04/81	81	
DANNY	BUNTIN	OK STILLWATER	2051	346	1218	4	0	48	+	1	5	9	2	65	74	04/08/96	96	
JOHN	FELA	NJ S. PLAINFIELD	2032	429	1123	2	10	38	+	1	6	0	3	48	68	05/19/98	98	
JOHN	EBELING	MN BLOOMINGTON	1963	337	1085	58	89	48	+	1	7	5	0	81	52	01/01/98	98	
MIKE	BUGAJ	CT ENFIELD	1841	250	1078	25	23	37	+	1	6	1	3	48	74	12/31/97	98	
BRUCE	ELVING	MN ESKO-DULUTH	1845	348	1408	9	8	47	+	1	4	2	0	54	48	05/05/97	97	
FRED	NORDQUIST	NY CLAY	1783	378	885	40	59	42	+	1	5	0	3	51	68	08/31/88	88	
JOHN	EBELING	MN PROSIT	1685	340	1047	4	6	48	+	1	9	2	0	80	75	01/01/88	88	
JOHN	ZONDLO	OK YUKON	1589	302	882	2	0	42	+	1	5	10	0	58	79	01/01/98	98	
MIKE	HAWK	NE OMAHA	1589	312	866	30	0	47	+	1	6	4	0	58	91	07/30/95	95	
RICHARD	SHAFTAN	NJ SPARTA	1558	227	737	27	0	38	+	1	6	0	1	47	78	06/11/98	98	
DAVID	NIEMAN	NY AKRON	1512	409	467	53	27	43	+	1	8	0	3	55	59	11/07/93	93	
BOB	SEYBOLD	NY DUNKIRK	1508	324	667	0	2	45	+	1	8	3	3	59	58	08/15/97	97	
JOHN	JEFFERSON	CA DIABLO REGION	1377	310	788	182	1	30	+	1	4	7	0	41	74	01/01/97	97	
BOB	SMOLAREK	NJ OLDWICK	1342	206	652	2	4	38	+	1	4	0	3	44	78	02/18/97	97	
FRED	MCCORMACK	ND FARGO	1339	305	990	3	52	48	+	1	6	3	0	58	74	08/03/90	90	
SAUL	CHERNOS	ON BURNT RIVER	1319	272	759	42	81	38	+	1	8	0	1	48	77	08/12/94	94	
JIM	PIZZI	NM LOVINGTON	1313	185	1044	27	0	38	+	1	5	20	3	66	81	03/04/85	85	
FRED	MCCORMACK	ND DES LACS	1110	145	803	26	87	44	+	1	6	4	0	55	65	04/09/88	88	
DANIEL	OETTING	PA PHOENIXVILLE	1048	258	381	13	2	36	+	1	7	0	1	45	77	06/12/98	98	
CARLON	HOWINGTON	FL ST PETERSBURG	1002					39	+	1				13	53	07/12/89	89	
DAVID	NIEMAN	NY ROCK CITY	995	227	169	15	1	37	+	1	5	0	0	43	91	06/16/98	98	
STEVEN	WISEBLOOD	TX BROWNSVILLE	852	183	381	5	0	32	+	1	0	9	7	48	92	07/13/94	94	
RON	LEBLANC	LA MARRERO	843	129	452	2	0	39	+	1	3	5	6	54	71	11/29/77	77	
ALAN	MICHALEK	MA SPRINGFIELD	812	106	495	0	0	36	+	1	5	0	0	42	52	10/01/80	80	
D BRUCE	HALL	ON BRANTFORD	800	132	153	106	2	40	+	1	6	1	3	51	90	07/20/94	94	
GARY	SIEGEL	OH TOLEDO	800	171	180	0	0	33	+	1	8	2	1	43	76	04/20/97	97	
RICHARD	STEINBERGER	MA HUDSON	797	175	345	13	6	35	+	1	5	0	0	41	58	12/31/97	98	
ROBERT	ROSS	ON LONDON	780	214	308	0	0	34	+	1	0	7	0	2	43	76	07/27/92	92
JOHN	TUDENHAM	MO JOPLIN	759	134	192	1	0	43	+	1	3	2	0	49	91	07/10/96	96	
JOHN	JEFFERSON	CA ANTIPOCH	710	172	358	43	1	21	+	1	0	4	4	29	88	11/14/92	92	
GEORGE	GREENE	OH AKRON	706	54	234	0	0	35	+	1	3	0	0	37	71	03/09/81	81	
DOUG	SMITH	TN PLEASANT VIEW	701	140	164	0	0	35	+	1	0	4	9	3	51	84	07/04/98	98
BILL	NOLLMAN	CT NORWICH	686	83	294	20	0	35	+	1	5	0	0	41	81	11/04/88	88	
MIKE	JEZORSKI	FL CRESCENT BEACH	626	116	285	0	0	36	+	1	3	1	4	45	83	06/05/98	98	
JEFF	KADET	IL MCCOMB	608	114	55	4	0	32	+	1	3	0	0	36	83	09/28/83	83	
JOSEPH	SMITH	NY JOHNSON CITY	605	80	185	0	0	34	+	1	2	0	1	38	71	04/20/84	84	
LARRY	MEADE	IL CHICAGO	458	85	85	6	0	23	+	1	0	2	0	25	79	09/05/92	92	
JIM	AYERS	TN MURFREESBORO	448	73	18	1	0	27	+	1	0	1	0	29	81	02/12/94	94	
ERIC	BUENEMAN	MO HAZELWOOD	420	61	115	0	0	38	+	1	3	1	0	43	92	08/31/98	98	
SAUL	CHERNOS	ON TORONTO	399	103	82	0	0	21	+	1	1	0	0	23	77	08/12/94	94	
PETER	GEORGE	MA STOUGHTON	384	94	140	20	2	36	+	1	5	0	0	42	67	07/05/95	95	
GUS	MANCUSO	MD HYATTS	377	71	88	0	0	26	+	1	0	0	0	27	72	08/10/97	97	
THOMAS	YINGLING	MD BALTIMORE	360	54	144	1	0	33	+	1	4	0	1	39	71	12/28/86	86	
WILLIAM	HEPBURN	ON BRAMPTON	308	183	83	1	6	21	+	1	0	2	0	1	24	85	11/10/91	91
PAUL	MOUNT	NJ MONMOUTH	307	48	21	0	0	20	+	1	0	0	0	21	90	08/24/92	92	
JIM	RENFREW	NY ROCHESTER	282	70	51	0	0	20	+	1	2	0	0	23	76	07/10/92	92	
JIM	THOMAS	CO FORT COLLINS	261	35	129	8	0	24	+	1	0	3	1	0	28	89	02/10/96	96
ERIC	FADER	NY BAYSIDE	257	53	15	0	0	16	+	1	1	0	0	18	74	08/24/79	79	
RONALD	PURDUE	MN BYRON	188	3	95	0	0	20	+	1	0	3	0	24	81	06/30/84	84	
KEN	ONYSCHUK	IL STEGER	188	38	0	0	0	7	+	1	0	0	0	7	68	08/20/94	94	
SHEL	REMINGTON	HI KEAAU	135	19	0	1	0	2	+	1	0	1	0	3	89	05/02/94	94	
ROBERT	GRANT	MI DETROIT	106	20	21	0	0	12	+	1	0	1	0	13	71	07/01/87	87	

FM SCOREBOARD COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from Dyer's location (All loggings should be received within 25 mile radius of this location to count. Frequency changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes 88-92 = All stations logged from 88.0 to 91.99 Mhz ES = Total number of stations logged by E-skip. MS = Total by meteor scatter. AU = Total via Aurora USA = Total number of states and the "+" = Washington DC CN = Number of Canadian provinces logged. MX = Number of Mexican states logged PO = Number of foreign countries, but not Canada/Mexico. TPU (Total number of political units) = Sum of USA CN MX and FO YB = The year you began Dxing from a specific Dxer's location. Other groundrules for computing log totals are included in VUD issue 05/97 Note: Now is the time to update and submit your latest stats to keep up to date on the Scoreboard. Also submit any distance records, states stats and personal best statistics. Send via email (text or EXCEL files are okay) or by postal mail. Text files or hard copy printouts of personalized DX distances covering >6000 FM/TV city of licence locations in the Americas north of the equator, with choice of miles and/or kilometers, are available by email (no charge) or by postal mail (\$2.00 donation to cover printing/postal expenses) Include your DX location and grid coordinates with your order. 73 . Fred.

FNAME	LNAME	LOCATION	TOTAL	UHF	LPTV	ES	MS	AU	USA	DC+	CN	MX	FO	TPJ	YB	AS OF	UPDAT
JEFF	KADET	IL MCCOMB	1668	1155	603	256	3	0	45	+	7	12	7	72	83	11/22/97	97
BOB	SEYBOLD	NY DUNKIRK	1406	818	242	224	30	6	49	+	7	3	5	65	50	08-15-97	97
FRANK	MERRILL	IL MCCOMB	1390	887	393	247	21	0	45	+	7	12	3	68	85	02/20-96	96
WILLIAM	DRAEB	WI KEAUAUNEE	1131	580	191	210	113	1	43	+	7	2	1	54	53	07/08-93	93
FERNANDO	GARCIA	NL MONTERREY	756	512	201	111	0	0	31	0	8	5	44	91	12/31-96	97	
GARY	SIEGEL	OH TOLEDO	659	317	55	154	0	0	39	+	6	2	2	50	70	04/20-97	97
ROY	BARSTOW	MA TEATICKET	649	405	140	128	40	1	37	+	7	0	2	47	71	09/01-98	98
MIKE	LAPINSKI	NY JAMESTOWN	581	409	77	70	1	0	37	+	6	0	3	47	78	04/23-93	93
WILLIAM	HEPBURN	ON BRAMPTON	577	379	78	115	1	0	37	+	7	0	1	46	85	07/09-98	98
DAVID	NIEMAN	NY ROCK CITY	577	425	95	55	0	0	37	+	5	0	0	43	91	06/16-98	98
DAVID	NIEMAN	NY AKRON	556	366	77	90	5	0	37	+	7	0	0	45	84	03/01-94	94
RUSS	MILLER	ME N AMITY	537	288	123	112	86	0	33	+	7	0	3	44	94	01/01-98	98
DANNY	OGLETHORPE	LA SHREVEPORT	494	203	43	162	3	0	38	+	4	18	2	63	94	12/15/97	97
PAT	DYER	TX SAN ANTONIO	488	155	13	199	64	4	42	+	5	5	17	59	12/31-95	96	
JEFF	KRUSZKA	LA BATON ROUGE	474	289	74	88	0	0	34	1	8	3	47	83	06/09-98	98	
GREG	CONIGLIO	NY WILLIAMSVILLE	448	271	43	93	0	0	35	6	0	2	43	86	02/08-98	98	
RICHARD	SHAFTAN	NJ SPARTA	426	222	40	122	0	0	37	+	6	0	1	45	81	06/06-98	98
FRED	NORDQUIST	NY CLARY	408	261	47	79	3	0	36	+	6	0	1	44	69	11/14-98	98
TOM	BRYANT	TN NASHVILLE	383	184	18	79	3	0	30	4	4	1	38	64	09/18/93	93	
DOUG	SMITH	TN PLEASANT VIEW	341	233	38	37	1	0	34	2	2	1	34	94	07/04-98	98	
ERIC	BUENEMAN	MO HAZELWOOD	282	197	12	34	0	0	28	+	4	1	3	92	08/31-98	98	
CHRIS	HANLEY	IL GALESBURG	210	108	10	60	0	0	28	6	0	1	35	88	08/09-95	95	
JOHN	JEFFERSON	CA ANTIQCH	206	106		75	1	0	16	4	4	0	24	74	01/01-97	97	
BOB	SMOLAREK	NJ OLDWICK	166	118	15	20	0	0	25	+	0	0	26	85	01/01-94	94	
RANDY	MILTIER	OR ASHLAND	126	38	2	70	2	0	16	16	3	3	22	69	06/29-97	97	
DANNY	BUNTIN	OK STILLWATER	123	90	6	6	0	0	12	2	0	0	24	77	03/01-94	94	
PAUL	MOUNT	NJ MONMOUTH	95	67	5	2	0	0	22	+	0	0	0	13	90	08-24-92	96
JIM	RENFREW	NY ROCHESTER	92	35	4	34	0	0	17	3	0	0	20	89	04/01-93	93	
RICHARD	STEINBERGER	MA HUDSON	91	51	5	6	0	0	14	1	0	0	15	60	12/31-97	98	
MIKE	HAWK	NE OMAHA	82	48	7	5	0	0	11	2	0	0	13	91	07/29-95	95	
SHEL	REMINGTON	HI KEAAU	11	2	2	0	0	0	1	0	0	1	2	83	05/02-94	94	

FM STATISTICS  
AS OF: 11/15

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
		USA					USA(Cont)					CANADA					MEXICO		
AL	163	KPU-	60	JEB-	MT	30	JJE2	28	JEB2	AB	30	JJE2	30	JEB2	AGU(AG)	1	JP1-	0	None
AK	11	JJE3	0	None	NE	80	MHA-	56	FME1	BC	20	JJE2	11	JEB2	BCW(BN)	18	PDY-	10	FMC-
AZ	55	PDY-	39	JJE2	NV	30	PDY-	24	DBU-	MB	15	FMC-	13	FMC2	BCS(BS)	1	PDY-	1	J20-
AR	66	JFE-	58	JTU-	NH	41	RST1	28	MBU-	NB	11	FME1	9	RST1	CAM(CCE)	2	KPU-	1	SW1*
CA	428	JJE2	143	PDY-	NJ	93	JFE-	83	RSM-	NF	13	JFE-	13	DN1-	CHP(CH)	5	PDY-	0	None
CO	85	KPU-	68	PDY-	NM	69	KPU-	55	RST-	NT	1	WHE2	1	JEB2	CHI(CI)	13	FME1	9	MHA-
CT	69	MBU-	43	JFE-	NY	253	FMO-	201	RSH-	NS	15	FME1	13	RST1	COA(CL)	12	KPU-	12	FME1
DE	21	DOE-	19	JFE-	NC	94	PDY-	74	JEB-*	ON	133	DN1-	131	GCO-	COL(CY)	0	None	0	None
FL	191	MJE-	190	FME1	ND	34	FMC-	34	FMC2	PEI	3	RST-	2	JFE-*	DF (DF)	21	JP1-	20	PDY-
GA	131	KPU-	125	PDY-	OH	259	RST-	177	FME2	PQ	31	DN1-	29	GCO-	CUR(DU)	1	PDY-	0	None
HI	29	SRE1	0	None	OK	146	J20-	141	DBU-	SK	12	FME1	10	JJE2	GTO(GN)	9	JP1-	1	PDY-
ID	30	PDY-	28	DBU-	OR	31	JP1-	29	FMC2	YT	0	None	0	None	GRO(GR)	8	PDY-	1	JP1-
IL	261	FME1	249	RST-	PA	198	DN1	157	DOE-						HGO(HD)	1	JP1-	0	None
IN	247	RST-	132	DBR-	RI	16	WMO-	16	RST1*						JAL(JA)	11	PDY-	0	None
IA	129	JEB-	89	PDY-	SC	78	PDY-	55	JEB2	CUBA	6	RST-	6	KPU-	MEX(MC)	4	PDY-	3	JP1-
KS	107	DBU-	102	J20-	SD	48	KPU-	41	PDY-	BELIZ	3	PDY-	3	KPU-	MIC(MH)	3	JP1-	2	PDY-
KY	144	RST-	85	PDY-	TN	165	KPU-	108	DSM1	BERMU	3	DN1-	3	GCO-	MOR(MR)	5	PDY-	3	JP1-
LA	80	JFE-	73	GCO-	TX	359	PDY-	260	RST-	EL SA	8	PDY-	4	SW11	NAY(NA)	1	PDY-	0	None
ME	48	RST1	41	KPU-	UT	36	PDY-	25	FME1	GUATE	23	PDY-	5	SW11	NL (NL)	20	SW11	20	PDY-
MD	64	JFE-	56	DOE-	VT	23	MBU-	20	KPU-	HONDU	6	PDY-	5	SW11	OAX(OX)	1	JP1-	1	PDY-
MA	108	RST1	96	DBU-	VA	75	JFE-	57	DOE-	JAMA1	29	KPU-	0	None	PUE(PU)	6	PDY-	0	None
MI	183	RST-	139	FME-*	WA	46	FMC2	13	JEB2	PUERT	5	MJE-	0	None	QUE(OT)	1	PDY-	0	None
NH	243	JEB2	237	JEB-	WV	68	GMA1	43	RST-	D.REP	2	FME1	0	None	QUI(QU)	0	None	0	None
MS	96	KPU-	69	JFE-	WI	144	JEB-	143	BE12	BAHAM	2	KPU-	1	DSM1*	SLE(SL)	2	KPU-	0	None
MO	169	FME1	134	JTU-	WY	32	RST-	30	PDY-	C.RIC	6	SW11	0	PDY-	SIN(SN)	3	JJE2	1	DBU-
					DC	14	GMA-	13	DN1-*	CAY I	3	KPU-	0	None	SON(SO)	10	PDY-	8	JJE2

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH POLITICAL UNIT (PU) FROM A SPECIFIED DXER LOCATION. FIRST AND SECOND PLACE DXERS ARE LISTED ONLY.	TAM(TM)	25	SW11	21 KPU-
* OTHERS THAT ARE TIED FOR SECOND ARE: MI: FME- RI: MBU- DC: DOE- NF: FNC-	TLA(TZ)	1	KPU-	0 None
PEI: DOE- JFE- BAHAM- FNO- CAC(ZA): JZO- /// SORRY TO SEE FOLLOWING FORMER	VCZ(VZ)	11	SW11	9 JPI-
MEMBERS DROPPED: MATT SITTTEL/DOUG ALLEN/GIL MORGAN/KEN SIMON/TIM MCVEY/RUSS BROWN.	YUC(YU)	7	FME1	4 SW11
	CAC(ZA)*	1	KPU-	1 DSM1

FM STATES				STATS-DXER				INITIALS/LOCATION/GRID				COORDINATES			
11/15/1998				LAT N LONGWEST				11/15/1998				LAT N LONGWEST			
INIT	DXER	NAME	DXER LOCATION	DEG	MIN	DEG	MIN	INIT	DXER	NAME	DXER LOCATION	DEG	MIN	DEG	MIN
KPUJ	KEITH D	PUGH	AK NEW HOPE	34	32	86	24	DN17	DAVID J	NIEMAN	NY AKRON	42	58	78	32
JJE3	JOHN M	JEFFERSON	AL ANCHORAGE	61	13	149	53	DN11	DAVID J	NIEMAN	NY ROCK CITY	42	1	78	28
PDY-	PAT	DYER	TX SAN ANTONIO	29	28	98	36	DOG-	DAWNY	OGLETHORPE	LA SHREVEPORT	32	23	94	46
JJE2	JOHN M	JEFFERSON	CA PLEASANTON	37	40	121	53	DSM-	DOUGLAS	ESMITH	WI MADISON	43	5	89	22
MBU-	MIKE	BUGAJ	CT ENFIELD	41	58	72	36	FGA-	FERNANDO	GARCIA	MEX GUADALUPE(N	25	41	100	15
DOE-	DAN	GETTING	PA BROOMALL	39	59	75	22	FME1	FRANK	MERRILL	IL MACOMB	40	27	90	40
FME1	FRANK	MERRILL	IL MACOMB	40	27	90	40	FNO-	FRED	NORDQUIST	NY CLAY	43	8	76	8
SRE1	SHEL	REMYINGTON	HI KEAAU(FERN F	19	27	155	10	GCO-	GREG	CONIGLIO	NY CREEKTOWAGA	42	59	78	41
RST-	RALPH	STROBEL	IN MUNCIE	40	11	85	23	GMA3	GUS	MANCUSO	MO HATTSVILLE	38	56	76	56
JEB-	JOHN	EBELING	MN BLOOMINGTON	44	50	93	19	JKA-	JEFF	KADET	IL MACOMB	40	27	90	40
DBU-	DANNY	BUNTIN	OK STILLWATER	36	7	97	4	JKR1	JEFF	KRUSZKA	LA BATON ROUGE	30	30	91	10
JFE-	JOSEPH	FELA	NJ S PLAINFIELD	40	35	74	25	PDY-	PAT	DYER	TX SAN ANTONIO	29	28	98	36
RS11	RICHARD	STEINBERGER	MA PROSIT	42	71	35	55	RBA-	ROY	BARSTOW	MA TEATICKET	41	36	70	36
JEB2	JOHN	EBELING	OK YUKON	35	30	97	45	RM11	RAYMOND	MILTIER	CA SAN JOSE	37	18	121	56
JZLL	JOHN	ZONDLO	OK YUKON	35	30	97	45	RM12	RUSSELL	MILLER	ME AMITY	45	54	67	53
GCG-	GREG	CONWILL	NY CREEKTOWAGA	42	59	78	41	RSM-	BOB	SMOLAREK	NJ HIGH BRIDGE	40	40	74	54
FME-	FRANK	MERRILL	MI MILAN	42	5	83	40	RS11	RICHARD	STEINBERGER	MA HUDSON	42	24	71	35
MNA-	MICHAEL	HAWK	NE OMAHA	41	31	96	3	SRE1	SHEL	REMYINGTON	HI KEAAU(FERN F	19	27	155	10
FNO-	FRED	NORDQUIST	NY CLAY	43	8	76	8	WHE-	WILLIAM	RHEPBURN	ON BRAMPTON	43	40	79	46
FMC-	FRED	MCCORMACK	ND DES LACS	48	17	101	25	WHE5	WILLIAM	RHEPBURN	ON NIAGARA FALL	43	5	79	6
JP1-	JIM	PIZZI	NM LOVINGTON	32	57	103	21	WHE6	WILLIAM	RHEPBURN	NT FROBISHER BA	63	44	68	28
DN11	DAVID J	NIEMAN	NY ROCK CITY	42	1	78	28	WHE7	WILLIAM	RHEPBURN	NT EUREKA	80	0	85	56
WNO-	WILLIAM	NOLLMAN	CT BOZRAH	41	20	72	36								
FMC2	FRED	MCCORMACK	ND FARGO	46	52	96	48								
GMA1	GUS	MANCUSO	WV BIRCH RIVER	38	30	80	47								
GMA-	GUS	MANCUSO	MD CHEVERLY	38	55	76	55								
RSM-	BOB	SMOLAREK	NJ HIGH BRIDGE	40	40	74	54								
RSN-	DOUGLAS	KSHAFTAN	WI SPARTA	41	0	74	38								
DSM1	DOUGLAS	ESMITH	WI PLEASANT	41	0	74	38								
BEL2	BRUCE	ELVING	WI DULUTH	46	47	92	6								
DN1-	DAVID J	NIEMAN	NY AKRON	42	58	78	32								
WHE2	WILLIAM	RHEPBURN	NT CORAL HARBOR	64	8	83	10								
MJE-	MIKE	JEZIORSKI	FL ST AUGUSTINE	29	44	81	20								
SW11	STEVEN C	MISERLOO	TX BROWNSVILLE	25	54	97	30								

## TV STATISTICS

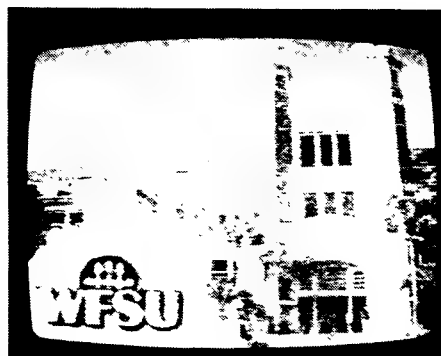
AS OF 1/1/75				STATS				AS OF 1/1/75				STATS			
PU	# DXER	# DXER		PU	# DXER	# DXER		PU	# DXER	# DXER		PU	# DXER	# DXER	
USA				USA(CONT)				CANADA				MEXICO			
AL	54	JKA-	49 FGA-	MT	9	FME1	8 JKA-	AT	9	JKA-	3 FME1	AGU(AG)	1	DOG-	0 None
AK	0	None	0 None	NE	59	JKA-	43 FME1	BC	1	FWH-	1 RM11	BCN(BN)	2	FGA-	2 PDY-
AZ	6	JKA-	5 PDY-	NV	3	FGA-	3 PDY-	MB	10	FME1	7 JKA-	BES(BS)	2	PDY-	1 DOG-
AR	49	JKA-	26 FME1	NH	12	RBA-	11 RST1	NB	40	RM12	11 RBA-	CAM(CE)	0	None	0 None
CA	55	RM11	7 PDY-	NJ	22	RBA-	16 RSM-	NF	8	RBA-	6 WHE-	CHP(CE)	5	JKA-	2 FGA-
CO	25	JKA-	17 FME1	NM	5	JKA-	5 PDY-	NS	55	RM12	31 RBA-	CHI(CI)	5	JKA-	4 FME1
CT	23	RBA-	12 RSM-	NY	96	DNI-	91 FNO-	ON	102	WHE-	84 DNI-	COA(CL)	10	FGA-	4 JKA-
DE	7	RBA-	5 RSM-	NC	42	RBA-	25 FGA-	PE1	31	RM12	2 RBA-	COL(CY)	1	JKR1	0 None
FL	117	FGA-	20 DSM-	ND	10	JKA-	7 FME1	PQ	62	RM12	19 DNI-	DF (DF)	2	PDY-	1 JKR1
GA	46	FGA-	39 JKA-	OH	89	JKA-	77 FME1	SK	17	FME1	16 JKA-	DUR(DU)	0	None	0 None
HI	10	SRE1	0 None	OK	61	JKA-	46 FME1	NT	2	WHE6	1 WHE7	GTO(GN)	1	JKA-	1 JKR1
ID	6	FME1	4 PDY-	OR	1	PDY-	1 RM11	YT	0	None	0 None	GRO(GR)	3	FGA-	2 PDY-
IL	88	JKA-	81 FME1	PA	80	DNI1	58 WHE-					HGO(HD)	0	None	0 None
IN	72	JKA-	64 FME1	RI	8	RBA-	7 RM12	FOREIGN(AMERICAS)							
IA	80	JKA-	70 FME1	SC	23	FGA-	23 RBA-	CUBA	12	FGA-	7 FME1	JAL(JA)	4	DOG-	1 PDY-
KS	43	JKA-	38 FME1	SD	26	JKA-	24 FME1	D.REP	1	JKA-	1 FME1	MEX(MC)	0	None	0 None
KY	41	FME1	39 JKA-	TN	55	JKA-	46 FME1	EL SA	2	FGA-	2 PDY-	MIC(MH)	0	None	0 None
LA	70	JKR1	62 FGA-	TX	187	FGA-	122 DOG-	GUATE	1	FGA-	1 PDY-	MOR(MR)	0	None	0 None
ME	31	RM12	24 RBA-	UT	4	JKA-	4 DOG-	HONDU	2	FGA-	0 None	NAL(NL)	13	FGA-	6 PDY-
MD	16	RBA-	16 DNI1	VT	14	RBA-	10 RM12	NICAR	1	PDY-	1 FGA-	OLX(OX)	2	PDY-	1 DOG-
MA	35	RBA-	29 RST1	VA	60	RBA-	19 DNI1	PUERT	1	JKA-	0 None	PUE(PU)	1	PDY-	1 JKR1
MI	82	JKA-	71 FME1	WA	4	JKA-	3 FME1	VENEZ	1	GO-	1 RM12	QUE(QT)	1	RDY-	1 FME1
MN	155	JKA-	73 FME1	WV	18	FME1	17 JKA-	TRINI	1	RM12	0 None	QUI(QU)	1	JKA-	1 DOG-
MS	33	JKR1	31 FGA-	WI	67	JKA-	60 FME1	PR	2	RM12	0 None	SLP(SL)	0	None	0 None
MO	75	JKA-	56 FME1	WY	4	JKA-	4 FME1	FOREIGN(OTHER)							
				DC	13	GMH3	12 RBA-	AUSTR	1	JKA-	1 FME1	SIN(SN)	2	DOG-	1 PDY-
								FRANC	1	WHE5	0 None	SOM(SO)	3	PDY-	2 DOG-
												TAB(TB)	2	PDY-	1 DOG-
ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH															
POLITICAL UNIT (PU) FROM A SPECIFIED DXER LOCATION.															
ONLY 1ST AND 2ND PLACE DXERS LISTED.															
OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED....FJN.															
								NORWA	1	JKA-	0 None	TAM(TM)	24	FGA-	11 DOG-
								SWEDE	1	JKA-	0 None	TLA(TZ)	0	None	0 None
								UK	2	WHE5	0 None	VCZ(VZ)	4	PDY-	3 DOG-
								USSR	1	JKA-	0 None	YUC(YU)	5	FGA-	3 PDY-
												ZAC(ZA)	1	JKA-	1 JKR1

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH  
POLITICAL UNIT (PU) FROM A SPECIFIED DXER LOCATION.  
ONLY 1ST AND 2ND PLACE DXERS LISTED.  
OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED.... F

Jeff Kruszka, Editor  
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December 1998

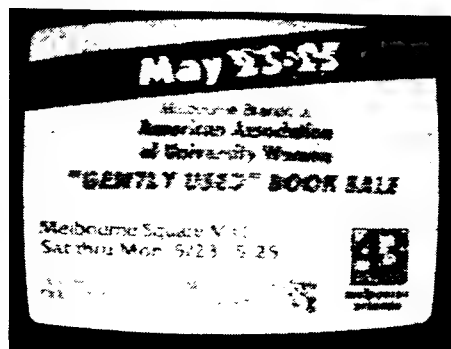
The last of Danny's photos from the month-long May opening (Danny Oglethorpe, Shreveport, LA):



WFSU-56 Panama City, FL  
502 mi Tr seen 5/22/98  
@2359 CT  
"/WFSU-11"



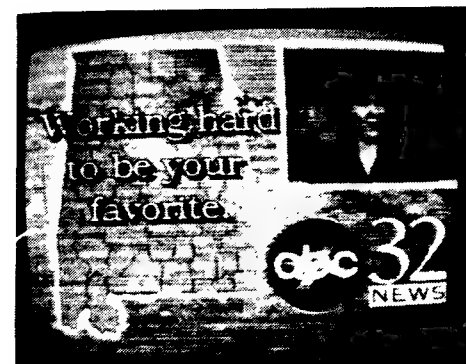
XHOR-14 Matamoros, TAM  
503 mi Tr seen 5/22/98  
"floating over KETH-14"



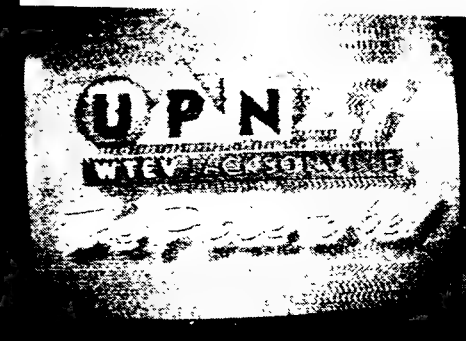
WBSF-43 Melbourne, FL  
840 mi Tr seen 5/23/98  
@0025 CT



WFTX-36 Cape Coral, FL  
818 mi Tr seen 5/23/98  
@0230 CT



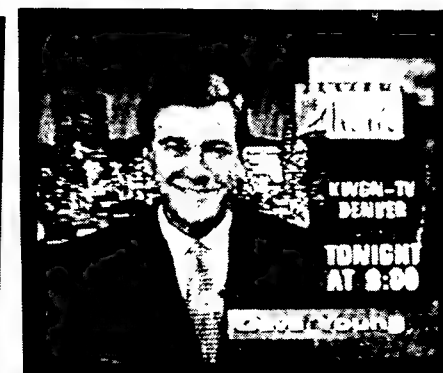
WHOA-32 Montgomery, AL  
436 mi Tr seen 5/22/98  
@0500 CT



WTEV-47 Jacksonville, FL  
728 mi Tr seen 5/23/98  
@0345 CT  
"The Place to be!"



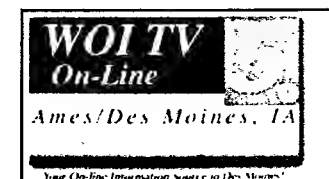
WTGL-52 Cocoa, FL  
826 mi Tr seen 5/23/98  
@0030 CT



KWGN-2 Denver, CO  
806 mi Es seen 5/6/98  
@1100 CT

Merry Dxmas to all!

*JFK*



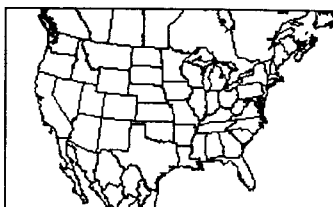


# NORTHERN FM DX

DECEMBER 1998

**DEADLINE:** The 5<sup>th</sup> of the month before publication  
**LOG CUTOFF:** 4 months from postmark  
**COLUMN REPORTING AREA:** See map to the right  
 (also includes Europe & Asia)

EDITOR: GREG CONIGLIO  
 90 SLATE CREEK DRIVE APT. #3  
 CHEEKTOWAGA, NEW YORK 14227  
 E-MAIL: coniglio@localnet.com  
 WEB: http://www.geocities.com/~wgrc



A few more reports from this summer's e-skip, and the fall tropo. The autumn started out interestingly, with some good Tr openings, but conditions have leveled off lately. Still, some interesting conditions reported by several reporters this month. Thanks to all of you who supported NORTHERN FM DX in 1998. I look forward to hearing from all of you again in 1999, and maybe hear from some new reporters next year, as well.

**HAPPY HOLIDAYS!**

## WELCOME NEW REPORTER!

**STAN WEISBACK - 411 E. SINTO #203 - SPOKANE, WASHINGTON 99202**

Equipment: Ford Probe Radio, GE Superradio II

### JUNE 1998 DX

#### 29 ES

1915 KTHQ 92.5 AZ Eagar, k  
 1940 KZUA 92.1 AZ Holbrook, "Z-92", ads for  
 Holbrook and Show Low  
 2016 KRST 92.3 NM Albuquerque, k  
 2025 KFMR? 95.1 AZ? Family Radio prog.  
 2030 KWWK 94.9 NM Aztec, "Quick Radio"

### SEPTEMBER 1998 DX

#### 30 TR or GW

1630 KQRK 92.3 MT Ronan, "The Q"

### OCTOBER 1998 DX

#### 12 GW

1614 KULE 92.3 WA Ephrata, "Coulee  
 Country", new freq., may still be testing

Hello! I'm glad you extended the deadline for summer reports because it finally convinced me to send in a report on the only FM Es I've ever received in this area in almost 30 years of trying. A couple of my co-workers told me of a DX opening after-the-fact back in about 1994 which made me more determined to hear one. I used to have a co-worker with a large TV antenna about 25 miles out of town and saw TV Es with him (AZ, NV & CA on Ch.3, KPHO-AZ on Ch.5) about ten years ago until he moved into town. With local Chs. 2, 4, & 6 here (in fact I worked at KXLY-4 at the time) TV Es is very tough here. Times are in Eastern Daylight Time. I normally get groundwave (or perhaps tropo) from the stronger stations in-between the locals. Tri-cities (Pasco, Kennewick, & Richland), Walla Walla, Pullman in WA, Lewiston & Moscow in Idaho are in more often than not. We generally have very low humidity here which I understand inhibits tropo, unfortunately. I think I met you at the Atlanta WTFDA Convention last year (yes, I was there - grc), Greg. I wish I could have made it to the Rock City Convention this year, especially with all the DX received there, but it was too expensive for me to get there. I was lucky to be able to come to Atlanta last year. I hope you enjoy receiving my report as much as I enjoyed sending it. If I receive any more unusual DX I'll pass it along. (Definitely, Stan. Thanks for reporting, and we look forward to hearing about your second e-skip experience!! - grc)

**COMING IN NEXT MONTH'S VUD: THE 1998 SKIP SUMMARY. SEE HOW THIS YEAR RATED IN COMPARISON TO OTHER RECENT SUMMERS!!**

## NORTHERN FM DX

DECEMBER 1998

### DAVE NIEMAN - HO STA GEH ROAD - ROCK CITY NEW YORK 14749

Equipment: Carver TX-11 tuner; IF filter modified. Pioneer SX 650 receiver Channel Master model 4408 (Stereo Probe 9) at 43 feet AGL on a Alliance HD-73 rotor. Winegard FT-7600 variable FM trap for 95.7MHz. Belden RG-11/u coax feed.  
 New loggings are underlined.

### SEPTEMBER 1998 DX

#### 26 tropo

1705 WFMZ 104.9 NC Hertford,  
 "Praise-105"+ ID, g\$ 422

*PRaise 105*  
**WFMZ**  
**104.9FM**

#### 27 tropo

0959 WBHV 103.1 PA State College, "The  
 Beaver"+ ID, ex "B-103", r\$ 89  
 1004 WRKZ 106.7 PA Hershey, ID+ "The new  
 Kat Country", ex "Z-106", k\$ 160

Dave

### OCTOBER 1998 DX

#### 4 tropo & Groundwave

0650 WNBQ 92.3 PA Mansfield, "The Buzz"+ ID  
 // WNBQ 104.5, r\$ 71  
 0900 W282AC 104.3 NY Dansville, WCOU 88.3  
 ID, g\$ 54  
 1000 WJQZ 103.5 NY Wellsville, "Z-103 5"+  
 call, o\$ (sate), ex "103-JQZ" & AC  
 29  
 1200 WBKT 95.3 NY Norwich, ID+"Big  
 Kat Country", k\$ 153  
 17 tropo  
 1000 WSGY 97.7 PA Somerset, "Froggy-98"  
 + ID, k\$ 141

### RICH GALLISON - 136 DYER RD - ATKINSON, MAINE 04426

### JUNE 22, 1998 DX

0846 KRNA 94.1 IA Iowa City, call letters  
 0855 WVPE 88.1 IN Elkhart, "88.1 WVPE"  
 0900 WGLT 89.1 IL Normal, calls  
 0900 WBNL 89.1 IN Fort Wayne, calls, NPR  
 0901 unID 89.3 NPR  
 0917 WHMS 97.5 IL Champaign "Lite Rock  
 97.5 it's 8:17"  
 0927 WYMG 100.5 IL Jacksonville, calls  
 0934 WAZY 96.5 IN Lafayette, calls & traffic  
 0937 unID 98.7 ?? "Cool FM", also on AM  
 but I didn't get the frequency



(All stations heard in Stereo) Been awhile since I last reported, about 4 or 5 years? FM dial is really getting cluttered around here, mostly country and religious stations. Sure wish WDME 103.1 would go QRT so I could hear new WZRQ 102.9, good rock station. Thank God for 107.7 WMDI and 93.9 WCYI (I really liked WCYY/WCYI on my trips to Maine - grc) Greg, why does Northern FM-DX banner have two Massachusetts (MA) and no Maine (ME) ??? (Well MA is twice as important as ME ha ha! Just kidding, I never noticed that! It should be cleared up now - grc) Best Wishes to all FM/TV DXers, Richard WA2CIQ (Rich, great to hear from you again! Hope to get another report soon! - grc)





# NORTHERN FM DX

DECEMBER 1998

**HARRY J. HAYES - 9 HENRY STREET - WILKES-BARRE, PENNSYLVANIA**

Equipment: GE Superradio w/110 kHz filter, 10 element Jerrold antenna in attic, RS amp. RS attenuator for overload, New Underlined

## SEPTEMBER 1998 DX

<b>3 Tr</b>					
0010	WMGK 102.9	PA	Philadelphia, good	100	
<b>16 Tr</b>					
2340	WTKV 105.5	NY	Oswego	135	
<b>17 Tr</b>					
0753	WDHI 100.3	NY	Delhi	100	
0803	WYYY 94.5	NY	Syracuse	135	
0807	WSRK 103.9	PA	Oneonta, over local translator	100	

0821	CFLY 98.3	ON	Kingston, rr mx	190	
0827	WODZ 96.1	NY	Rome, strong	150	
0830	CJOJ 95.5	ON	Belleville, v/strong	220	



It has been a disappointing fall for tropes to say the least. It is now October 28<sup>th</sup> and there was nothing much of note to report in October. I just retired my Jerrold antenna in the attic, at least temporarily, in favor of an FM "stacked quad loop" that I built about 12 years ago. On the Jerrold I have been plagued lately with an electrical buzz from an unknown source all across the FM band, also my fax machine for my home business downstairs produces an odd sounding buzz in selected places on the dial. This problem is somewhat relieved when I move the electrical cord in different positions but the problem never completely goes away. Using the quad loop set-up right at my receiver, however, I eliminate the fax machine problem and the strange electrical buzz for the most part. Also without amplification to the loop I have picked up numerous MS bursts which I think attests to the effectiveness of this kind of antenna configuration for FM. Because I am using a smaller antenna I think that the reduction in overload from my numerous super-locals opens up my frequencies better for MS reception. You'd be surprised how a little overload can mask MS bursts! We'll see how this set up fares for MS and the upcoming E skip season in the next two months. Does anyone else have a problem with fax machines on FM?

## CHARLES BERNTH - P.O. BOX 236 - EASTPORT, NEW YORK

Equipment: Adcom GTP-400 tuner, RS antenna  
Internet: cbernth@banet.net

## AUGUST 1998 DX

<b>5 Tr</b>					
0644	WFXK 104.3	NC	Tarboro, Foxy	107-104	441
0707	WRVQ 94.5	VA	Richmond, Q-94		360
0711	WRSN 93.9	NC	Burlington, Sunny	93.9	491
0723	WERO 93.3	NC	Washington, calls		457
0755	WVES 99.3	VA	Accomac, calls		263
0759	WQRC 99.9	MA	Barnstable, calls		134
0831	WSDL 90.7	MD	Ocean City, calls		217
1004	WFCR 88.5	MA	Amherst, calls		106
<b>5 Es</b>					
0856	WSMR 90.7	FL	Sarasota, calls		1098
0900	WQCS 88.9	FL	Ft Pierce, calls		1024
0901	WLAZ 88.7	FL	Clermont, calls		986
0905	WFCF 88.5	FL	St Augustine, calls		897
<b>7 Tr</b>					
0827	WDAC 94.5	PA	Lancaster, calls		199
0834	WOCT 104.3	MD	Baltimore, The Colt		235
0851	WYYY 97.9	MD	Baltimore, 98-Rock		222
1020	WKYS 93.9	DC	Washington, Kiss	93.9	268
<b>15 Es</b>					
1050	KSD 93.7	MO	St Louis, calls		950
1100	KSHE 94.7	MO	Crestwood, calls		950
1118	WYXY 93.9	IL	Lincoln, Y93.9		878
1127	WLRW 94.5	IL	Champaign, ads		821
1144	WFMB 104.5	IL	Springfield, ads		896
1155	KCFX 101.1	MO	Harrisonville, KC101		1159
1222	KHKI 97.3	IA	Des Moines, ads		1094
1227	WNIB 97.1	IL	Chicago, ads classical		778

## AUGUST 15<sup>th</sup> Es continued

1233	WMT 96.5	IA	Cedar Rapids		
			Mix 96-1/2		984
1241	KGGO 94.9	IA	Des Moines, calls		1079
1247	KKEZ 94.5	IA	Ft Dodge, Z-94		1115
1254	KRNA 94.1	IA	Iowa City, ads		995
<b>15 Tr</b>					
1810	WYST 93.5	MA	Harwich Port		
			Stereo 93.5		151
<b>16 Tr</b>					
0925	WMJS 92.7	MD	Prince Frederick ads		264
0930	WRBS 95.1	MD	Baltimore, calls		238

Best Regards  
Charles Bernth



# SOUTHERN FM DX

**Merry CHRISTMAS**

John Zondlo  
4009 Driftwood Circle  
Yukon, OK 73099  
E-mail: Jpzondlo@aol.com  
Deadline: 10th



For DXers In AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, NC, NV, OK, SC, TN, TX, UT, WV and Mexico

## December 1998

**Luke Steele**  
437902 E 278 Rd.  
Vinita, OK 74301  
CDT

Radio Shack DX-390 with built-in whip antenna

## 6/1 Es

1656	WOVK 98.9	WV	Wheeling, k, mention of "Wheeling-Shadyside"		
1657	unID 98.9	??	??, o, "Oldies 98.9"		
1703	WZMT 97.9	PA	Hazleton, "NE PA's 95.7-97-9 The Bear"		
1709	WQKX 94.1	PA	Sunbury, r, "94-1 KX"		
1723	unID 93.7	PA	??, ad for Sylvester Chevrolet and "NE PA's...."		
1735	unID 92.5	??	??, ad for "Excel Honda, Q-92 Light Favorites"		
1750	CHOM 97.7	PQ	Montreal, "97.7 FM Montreal"		
1806	unID 93.7	??	??, "Eagle 93-7"		
1808	WAMU 88.5	DC	Washington, "The World at 10 on WAMU"		
1839	WBSS 97.3	NJ	Millville, t, giving 800 # ending in 1015		

## 6/13 Es

0932	KPCL 95.7	NM	Farmington, gt		
0959	KNMI 88.9	NM	Farmington, g		
1010	unID 90.7	??	??, mention of Chesapeake		

## 6/28 Es

1024	unID 105.3	??	??, "Q-105," Fox Kids Countdown		
1029	WKNE 103.7	NH	Keene, "KNE-FM"		
1043	WBFB 98.9	NY	Rochester, "Favorite Oldies All Weekend, 99 BBF"		
1051	unID 96.9	??	??, 70s, ad for Pipes Unlimited		
1056	WNED 94.5	NY	Buffalo, c		
1115	CFLY 98.3	ON	Kingston, AC, "98-Fly FM"		
1122	WFRY 97.5	NY	Watertown, k, "Froggy 97.5"		

## 7/13 Es

0917	WKSI 98.7	NC	Greensboro, "98-7 The Point"		
0924	WHSL 100.3	NC	High Point, k, "Whistle 100"		
0926	WTRG 100.7	NC	Raleigh		
0928	WBZF 100.5	SC	Florence, p, "The PD's 100.5 The Buzz"		
0928	WSSL 100.5	SC	Greenville, k		
0934	unID 102.5	??	??, mention of "Trail(?) Winds" amusement park		
0935	unID 102.1	??	??, k, "Q-102"		
0935	unID 102.7	??	??, "Cool 102.7"		
0936	WGNi 102.7	NC	Wilmington, "102.7 GNI"		
0956	WXTU 92.5	PA	Philadelphia, k, "92 XTU"		
1013	WCTK 98.1	RI	Providence, k, "Cat Country"		
1018	unID 96.9	??	??, ad for a restaurant on Hall Road		

## 10/22 WQPW

0805	KKTZ 107.5	AR	Mountain Home, lake report, KGND off!		
0808	KJLO 104.1	LA	Monroe, k, "K-104"		
0838	KNOE 101.9	LA	Monroe, "FM 102"		
0851	WMSI 102.9	MS	Jackson, k, "Miss 103"		

0854	KXKZ 107.5	LA	Ruston, k, "Kix 107.5," KGND off		
0902	KPCH 97.7	LA	Ruston, o, "K-Peach"		
0905	unID 95.3	??	??, k, "Y-95 weather, Ouchita and...county's #1"		
0934	unID 92.9	??	??, "The best of the 70's. 80s and 90s...Country 92.9"		
0936	KNLU 91.1	LA	Monroe, p		
0941	KEDM 90.3	LA	Monroe		
0958	WMAU 88.9	MS	Bude		
<b>8/4 Tr</b>					
1225	unID 104.1	??	??, o, "Oldies 104"		
<b>8/15 Es</b>					
1518	WKSI 98.7	NC	Greensboro, "The Point"		
1520	WDRP 98.9	NC	Windsor		
1549	unID 94.9	??	??, "...on the Arrow."		
1554	WWDE 101.1	VA	Hampton Roads, "2WDE"		
1558	WBNK 100.7	VA	Charlottesville, p		
1602	WWFG 99.9	MD	Salisbury, k, "Froggy 99.9"		
1605	WQPO 100.7	VA	Harrisonburg, CHR, "Q-101"		
<b>8/20 Tr</b>					
1031	KRXL 94.5	MO	Kirkville, "The X," KEMX off the air		
2019	WSOY 102.9	IL	Decatur, "Y-103"		
2052	WKXK 106.5	IL	Granite City, k, "Kix 106.5"		
2101	KFUO 99.1	MO	St. Louis, c, "Classic 99"		
2112	KYKY 98.1	MO	St. Louis, "Y-98"		
2123	WIBI 91.1	IL	Carlinville		
<b>8/21 Tr</b>					
2000	KFGE 98.1	NE	Lincoln, k, "Froggy 98"		
2130	KFMZ 98.3	MO	Columbia, p		
2136	WDBR 103.7	IL	Springfield		
<b>8/22 Tr</b>					
2036	KETR 88.9	TX	Commerce, o, "The Mint"		
2042	KKJO 105.1	TX	St. Joseph		



Luke 2:10 And the angel said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people.  
11 For unto you is born this day in the city of David a Saviour, which is Christ the Lord.



This Christmas, may you find the greatest joy, that of having Jesus in your heart!

**Merry Christmas**

The Zondlo Family  
John, Carol, Christy and Joel

# EASTERN TV DX

December, 1998

Russell Miller  
HC 61, Box 86B  
N. Amity, ME 04471-9622  
email address - estvdx@aionop.com

## LOCAL TIME UNLESS OTHERWISE NOTED

Dave Nieman, Ho Sta Geh Rd, Rock City, NY 14749

Equipment: Teknika 6510 tuner into a Quasar 25" TV (MFG. 1977) plus an ICOM IC-R7000 TV receiver adapter. Channel Master 3617VHF antenna at 15 feet AGL, on a Radio Shack rotor, Belden RG-6 coax feed into a Winegard FT-7600 FM trap (set to trap 95.7 MHz) and winegard DA-205 distribution amp. antennacraft P-7 UHF antenna at 36 feet AGL on an alliance HD-73 rotor, Winegard PA-4975 preamp and Belden RG-aa/u coax feed.

All underlined loggings are new. Teknika for VHF and ICOM receiver for UHF reception.

### October, 1998

17 Tr	0220	CHLF13	17 ON	270
	0230	<u>W15BH</u>	15 NY Buffalo	63
		(WNYB-26)		
	0300	WYDO	14 NC	450
	0900	<u>CHRO</u>	43 ON	273
	0930	<u>CITY3</u>	65 ON	264

This has been it for reception on the weekends for October down here. The new translator for WNYB (26) Jamestown, NY gets out well; it should be seen by many. Dave

Harry J. Hayes, 9 Henry St, Wilkes-Barre, PA 18702

Equipment: VHF: Ch. 2 and 5 switchable Quad loop, Radio Shack amp. UHF: 6ft. screened dish w/RDX Labs UA-901 amp. in attic and Zenith Sentry II, 1991 model

### September, 1998

03 Tr	0030	WGBS	57 PA Philadelphia	100
		"UPN-57"		
16 Tr	2230	WUTR	20 NY Utica, strong	150
	2239	<u>WNY5</u>	43 NY Syracuse	135
	2315	<u>WWTI</u>	50 NY Watertown	200
		strong		
17 Tr	0009	WUHF	31 NY Rochester	180
	0009	<u>CIVO</u>	30 PQ Hull	290
		fair at times, FF		
	0040	CFM2TV2	60 ON Ottawa	280
		local ads		
	2240	WPMT	43 PA York	110

### October, 1998

24 Es 2050 unIDs 2-4

September 16 and 17, without doubt the highlight of this reporting period. 1998 is kind of a letdown year for tropo, no really distant openings like in other years. The October 24 Es is only the third time in 29 years that I've seen that mode of Dx in that month.

Roy Barstow, P.O.Box 2488, Teaticket, MA 02536

### October, 1998

18 Tr	0800	WTKR	3 VA	455
	0810	WVEC	13 VA	455
		WTVD	11 NC	591
		WUNP	36 NC	533
	0830	WUNJ	39 NS	660
		WYDO	14 NC	562
		WPDE	15 SC	688
		WNCN	17 NC	592
		W20AT	20 NC	533
		WCNC	36 NC	698
		W19BM	19 VA	450
		WRAZ	50 NC	600
	0900	W34AX	34 NC	550
		WRAY	30 NC	565
		W18BS	18 VA	450
		W24BI	24 VA	450
		WNCT	9 NC	565
		WITN	7 NC	565
	0930	WSFX	26 NC	660
		WUNU	31 NC	592
		W45BG	45 VA	456
		WLFL	22 NC	600
	1100	WEBA	14 SC	827
	1105	WCES	20 GA T	
		PM Like Above +		
	2000	WJWB	17 FL	990
		WAWS	30 FL	990

Russell Miller, Amity, Maine 04471

### October, 1998

12 Tr	1844	<u>WVBI</u>	27 NY	284
	1932	W14CK	14 VT	
		Video 27 UPN WWBI & Ch.14 Jay Peak		
	1948	CHCH	67 ON Severn Falls	
	2000	WNPI(?)	18 NY	355
		ID w/ WPBS (Watertown)		
13 Tr	1900	MD, VA, PA, NJ, etc		
18 Tr	0800	WVBT	43 VA	753
		WHRO	15 VA	
	0856	WHSP	65 NJ	
	0900	WNJU	47 NJ	

# WESTERN TV-DX

December 1998

## Welcome to a New Reporter:

Paul Mitschler, 1906 All American Road, Hanover, KS 66945; 785 337-2287 email Ldendron@msn.com

Equipment: Channel Master 1162 antenna @ 18', CM 0100 amp, and LXI 13" receiver.

## August 1998 tropo

20 0805	KRSC	35 OK Claremore
	KHBS	40 AR Ft. Smith
	KGLBI	44 OK Okmulgee
0821	KOZK	21 MO Springfield
	KPOM	24 AR Ft. Smith
2120	KDNL	30 MO St. Louis
	WICS	20 IL Springfield
	KOZJ	26 MO Joplin
	WRSPt	55 IL Springfield
2148	WXIN	59 IN Indianapolis
	KNLJ	25 MO Jefferson City
	WICD	15 IL Champaign
	WLKY	32 KY Louisville
	WHSlt	46 IL East St. Louis
	WTVF	47 IL Peoria
		52 carrying WKYT-27
	KMIZ	17 MO Columbia
	KSPR	30 MO Springfield
		55 carrying TNT scrambled
28 0730	K56FC	56 NE Grand Island
30 1000	KCLJ	46
	1056	KSNF 16 MO Joplin
		KXLT 47 MN Rochester
		WLAX 25 WI La Crosse
		WEUX 48 WI Chippewa Falls
		16 0746 KRSC 35 OK Claremore
		0820 KGLB 44 OK Okmulgee
		KWHB 47 OK Bartelsville
		25 0758 WOI 5 IA Ames
		KTAJ 16 MO St. Joseph
		0822 KUSD 2 SD Vermillion
		KSMN 20 MN Worthington
		K25AA 25 IA Rock Rapids (Iowa PBS)
		0839 KTIN 21 IA Ft. Dodge
		KYIN 24 IA Mason City
		K22CX 22 NE Lincoln
		29 0636 K56FC 56 NE Grand Island
		KCAU 9 IA Sioux City
		30 0834 All Kansas City UHF snowfree
		35 and 48 show Value Vision
		K68DK 68 KS Overland Park

## September 1998 tropo

02 0710	KSNF	16 MO Joplin
	KCDK	21 KS Dodge City
	KFAA	51 AR Rodgers AR
03 0847	KOCR	28 IA Cedar Rapids
	KCWB	29 MO Kansas City
	KHBS	40 AR Fort Smith
	K61GC	61 KS Wichita
04 0800	KWNB	6 NE Hayes Center
	KHGI	13 NE Kearney
	0807	K53EY 53 NE Omaha
	K56FC	56 NE Grand Island
	K58	Wamer Brothers
	K60AK	60 IA Clarinda
07 0559	KMGH	7 CO Denver (snow free)
	KRMA	6 CO Denver
	KCEC	50 CO Denver Spanish
	KRMTt	41 CO Denver Religious
	KWHDt	53 CO Castle Rock Telethon

CDT

K48AJ	48 CO Idalia (KCNC-4)
K46AD	46 CO Idalia (KWGN-2)
KPXC	59 CO Denver
KWGN	2 CO Denver
KSNK	8 KS Oberlin McCook NBC
K63?	carrying Spanish programming
0630	KLWY 27 WY Cheyenne FOX
KKTUt	33 WY Cheyenne
K66?	and K69? test pattern no id
KGWN	5 WY Cheyenne
0656	KUSA 9 CO Denver
KKTU	11 CO Colorado Springs
KTVd	20 CO Denver
0709	KXRMt 21 CO Colorado Springs
0738	KRDO 13 CO Colorado Springs
KBDI	12 CO Broomfield
KFCT	22 CO Ft. Collins
11 0445	K61GC 61 KS Wichita
K64BS	64 KS Concordia (carrying KMBC 9)
K17CI	17 NE Beatrice
K15CN	15 KS Salina
0509	K14HKt 14 KS Great Bend
K21AP	21 KS Topeka
K22CP	22 KS Salina
0530	KMEG 14 IA Souix City
K30BP	30 NE Norfolk
K55FL	55 IA Spencer
0537	K30CO 30 IA Storm Lake
0845	WHWC 28 MN Winomi PBS
	KSMN 20 MN Worthington
	KXLT 47 MN Rochester
	WLAX 25 WI La Crosse
	WEUX 48 WI Chippewa Falls
16 0746	KRSC 35 OK Claremore
0820	KGLB 44 OK Okmulgee
	KWHB 47 OK Bartelsville
25 0758	WOI 5 IA Ames
	KTAJ 16 MO St. Joseph
0822	KUSD 2 SD Vermillion
	KSMN 20 MN Worthington
	K25AA 25 IA Rock Rapids (Iowa PBS)
0839	KTIN 21 IA Ft. Dodge
	KYIN 24 IA Mason City
	K22CX 22 NE Lincoln
29 0636	K56FC 56 NE Grand Island
	KCAU 9 IA Sioux City
30 0834	All Kansas City UHF snowfree
	35 and 48 show Value Vision
	October 1998 tropo
01 1638	KSPR 33 MO Springfield
	KWHB 47 OK Tulsa
	KRSC 35 OK Claremore
	KOZJ 26 MO Joplin
	KNLJ 25 MO Jefferson City
1700	KOZK 21 MO Springfield

# **Western TV DX** *Paul Mitschler's report cont'd*

KSNF 16 MO Joplin  
 KDEB 27 MO Springfield  
 1744 KOAM 7 KS Pittsburg  
 KODE 12 MO Joplin  
 1929 KCLJ 46  
 KFAA 51 AR Rogers  
 2022 K20CT 20 AR Springfield  
 K52DH 52 MO Springfield  
 K48? Value Vision E SE

This is my first report since relocating to Kansas. I have been amazed at the cochannel signals on the UHF band here. During the next few days I plan to put up my screened dish with rotor. It was great to see so much tropo from Colorado on Labor Day.

**Dennis Park Smith**, 3703 Dixon Street, Santa Barbara, CA 93105-2419 (805)687-7803

This report is for October 1998. There has been some change in the weather from summer to fall-winter conditions, but in between weather fronts, there was temporary return to stable air layering for some fair TV-FM coastal tropo between Santa Barbara and San Diego/Tijuana, up to 200 mi/320 km. Monitoring as usual was on indoor TV equipment and car radio FM.

01-4am: None (After none the day before)  
 04 eve: Poor  
 05 am: Fair (Some inland warming & Santa Ana winds)  
 05 eve: None (Coastal warming; layers blown away)  
 06 am: Very poor (UHF only; no VHF-TV or FM)  
 06 eve: Poor (air layers return, "summer pattern"  
 07 Fair coast cooling to mild, hot inland  
 08 Good  
 09 Poor (Cooling inland; unsettled--some layer instability)  
 12 Fair (out of town 10,11)  
 13 Poor  
 14 Very poor  
 15 None  
 16 am: Very poor  
 16 eve: Poor (except SDiego UHF good; no Tijuana UHF)  
 17 am: None  
 17 eve: Fair (Return to stable air layering)  
 18 am: Poor  
 18 eve: Fair  
 19 am: Fair (Moderate warming inland)  
 19 eve: Good  
 20-21 am: Good  
 21 eve: Very Good  
 22-24 am: Fair, deteriorating  
 24 eve: Poor (Stability ending; a little rain with Autumn/  
 25-26: None Winter weather front; overall cooling  
 27-28 am: Poor  
 28 eve: Fair  
 29-31 am: Variably none to very poor  
 31 eve: Fair

While in Wasco Oct. 10-12, a new Channel 32 was seen Oct. 10: KMCF-LP Fresno, A1 network, overnight VCC. Approx 80-100 miles. This is number 190 in my weatherbeaten reconstructed Wasco TV log. Best of DX to All. Dennis

**William Eckberg**, 1032 Sterling Rd., Dixon, IL 61021

October 1998 tropo	CDT/CST
09 2200 WUNF 33 NC	558
10 2220 WLFQ 68 VA	487
2230 WYMT 57 KY	449
2300 WKPI 22 KY Pikeville	461
11 0025 WVGW 59 WV Lewisburg	542
0130 KTXH 20 TX	893
0140 KXLN 45 TX	919
0230 KARD 14 LA	651
11 0245 KXNE 19 NE	402
0305 WOIO 19 OH	401
0315 WGMB 44 LA Baton Rouge	784
0435 KPOM 24 AR	513
KVTJ 48 AR Jonesboro	409
0830 WLFQ 68 VA	487
WYMT 57 KY	449
24 0235 WUNF 33 NC	558
0335 WYMT 57 KY	449
28 0600 KDSD 16 SD	509
0610 KDLV 56 SD Sioux Falls	383
0625 KSAX 42 MN	404
0700 K42CC 42 SD Sioux Falls	383
K44CW 44 SD Sioux Falls	383
0740 K59FM 59 IA Iowa Falls	201
0745 KSCB-LP 53 SD Sioux Falls	383
0810 K57GN 57 IA Iowa Falls	201
29 0230 WYMT 57 KY	449
31 0135 KHNE 29 NE	464

Help was received on two mysteries. Minneapolis 9 on ch. 51 was 1.8 kW Jackson, MN. Fox programming on ch. 67 in Lima, OH was 19.5 kW WOHL-LP.

Interesting DX was seen in the early AM of October 11. Forty-five minutes centered on 0130 brought tropo to the east. (WV 542 mi), south (Rosenberg 919 mi), and west (norfolk 402 mi). DX was in for ten hours. A large stagnant air mass was centered over the central and southern US. Lewisburg WV was in for hours, and snowfree late. Houston UHFs were in 45 minutes with Spanish-speaking ch. 45 watchable.

Asheville 33 is seen more since their power increase, tower height increase, and polarization shift. WUNF-33 is seen late testing with their familiar UNC logo. An excellent early AM beacon station.

Mid AM on a rainy October 28 brought six new stations to the west. The new ch. 46, sat. of Mitchell SD-5, was snowfree from Sioux Falls. Surprised to see Sioux Falls 42 and 44 C/B very weakly for an hour. Power is 880 Watts and tower height is 141' for the former and 680 Watts and 118' for the latter. The ID KCSB was seen on ch. 53. K53EG in Sioux Falls is owned by Siouxland Christian Broadcasting. Which is their call? Much info on SD TV was found in CABLE and TV

# **Western TV DX** *Wm Eckberg's report concludes*

Factbook. Iowa Falls 59 is TV land and 57 appears to be a movie channel. No IDs as they are wireless. Other previously seen Iowa Falls channels were in.

**Fernando Garcia**, San Salvador 415, Rincon de la Sierra 67181 Cd Guadalupe, NL, MEXICO  
 Sony KV-27EXR15, Screened CM 7'dish 85', RG11, UA900 amp. Sony KV-13TR27, CM 1110 30', CM 8 bay UHF array 60'.

1800' ASL, No re-logs in the same month, only tropo 500+ miles.

October 1	CDT
0345 KADN 15 LA Lafayette	586
October 3	
0800 KETK 56 TX Jacksonville	532
KXTX 39 TX Dallas	518
KDTX 58 TX Dallas	518
October 4	
0700 KFWD 52 TX Fort Worth	522
2200 KPXD 68 TX Arlington	518
October 6	
0630 K57FE 57 TX McAllen	130
Continuous calls and city upper right.	
PRAISE TV at this time	
October 9	
0745 WUPL 54 LA Slidell	705
WLAE 32 LA New Orleans	694
WNOL 38 LA New Orleans	694
WLTZ 38 GA Columbus	1036
narrow duct into GA o/u WNOL	
0800 WGNO 26 LA New Orleans	694
WPXL 49 LA New Orleans	688
0815 WPML 15 AL Mobile	838
0830 KLPB 24 LA Lafayette	567
0845 WMAH 19 MS Biloxi	770
WHNO 20 LA New Orleans	688
WPAN 53 FL Fort Walton B.	869
0915 WMTG 41 GA Macon	1115
WVLA 33 LA Baton Rouge	633
WLPB 27 LA Baton Rouge	638
0930 WFSG 56 FL Panama City	929
I was lucky to have asked for three free days at work otherwise I would have never known of this morning opening.	
2000 KLAX 31 LA Alexandria	618
KLPA 25 LA Alexandria	619
\$ and same main audio on SAP, it's new to LPB stations	
2130 WCFT 33 AL Tuscaloosa	924
October 10	
0400 KASN 38 AR Pine Bluff	772
Shop at Home	
0700 KFXX 51 TX Longview	557
KYPX 42 AR Little Rock	803
0715 KVTH 26 AR Hot Springs	739
0730 K69HD 69 LA Church Point	586
KLAF-LP 62 LA Opelousas	600
0930 KVHP 29 LA Lake Charles	530
KLTL 18 LA Lake Charles	548

1630 KTFO 41 OK Tulsa	766
KWHB 47 OK Tulsa	765
1645 KWMJ 53 OK Tulsa	766
October 11	
0430 KHSX 49 TX Irving	518
KAMC 28 TX Lubbock	553
KBZO-LP 51 TX Woodrow UNI	558
strong 28, 51 color	
unid ch 62 continuous Shop at Home, suspect	
K62DG Lubbock, seen until 10 AM	
0445 KPOM 24 AR Fort Smith ID Bars	783
0500 KSPR 33 MO Springfield	906
KTVV-LP 63 AR Hot Springs Shop at Home	
KDEB 27 MO Springfield	905
KCPN-LP 65 TX Amarillo	677
Shop at Home, later UPN 65	
KPTB 16 TX Lubbock	555
0615 K53FR 53 TX Plainview	599
KPCB 17 TX Snyder	495
KGLR-LP 40 TX Lubbock Rel.	553
K49BY 49 NM Clovis	634
US State #18 via tropo, long time waited for it.	
KRQE-TV ID Bars, programming at 7 AM.	
0645 K47EB 47 TX Lamesa	498
K41CA 41 TX Kress KFDA-10	611
K50ED 50 TX McCamey	405
0800 KCIT 14 TX Amarillo	677
FOX, hard to get due to local T band activity.	
K67EP 67 TX Snyder CBS	495
Great to have this opening to nw TX on weekend	
chs 16, 17, 47, 50, 53 were all with same	
pr. as KMLM-42 (PTCB) Odessa strong.	
KCBF 11 TX Lubbock	555
KLKB 13 TX Lubbock	554
KXTX 5 TX Lubbock	558
0930 KOZK 21 MO Springfield	906
KIDT-LP 43 TX Stamford FOX	504
1000 KPSS 43 OK Oklahoma City	706
1030 KWCvt 33 KS Wichita	
color, running rel. program with two phones numbers on	
screen one for Wichita area and the other for outside.	
1100 KPXE 50 MO Kansas City	982
KSMO 62 MO Kansas City	986
KCWB 29 MO Kansas City	973
October 14	
0530 WEIQ 42 AL Mobile	825
WMPV 21 AL Mobile	842
WHBR 33 FL Pensacola	838
0545 WMAU 17 MS Bude	697
0600 WXTX 54 GA Columbus	1037
WXXV 25 MS Gulfport	764
0615 WJSU 40 AL Anniston	992
WTJP 60 AL Gadsden	998
0645 WFXL 31 GA Albany	1066
o/u DTV signal from KHOU-DT?	
WGMB 44 LA Baton Rouge	633
0700 K30EM 30 LA Houma HTV	644
WGIQ 43 AL Louisville	987
K59DG 59 LA New Orleans TBN	688
1930 KMSS 33 LA Shreveport	615
October 15	
0300 KDAF 33 TX Dallas	518

## Western TV DX *F. Garcia's report concludes*

KTXA	21 TX	Fort Worth	518
0515 KUVN-LP	31 TX	Fort Worth UNI	521
KLDT	55 TX	Lake Dallas	544
0530 KDFI	27 TX	Dallas	518
0545 KMPX	29 TX	Decatur	537
KDOR	17 OK	Bartlesville	795
rare o/T band activity			
0645 KOKH	25 OK	Oklahoma City	703
October 25			
0600 KJTV	34 TX	Lubbock	552
local out for 30 minutes I noted this one with much better signal than KAMC-28, my local 34 should sign off more often, after all, they just run bars all night.			
October 29			
0800 WAIQ	26 AL	Montgomery	959
WMCF	45 AL	Montgomery	965
1930 WIAT	42 AL	Birmingham	969
WHOA	32 AL	Montgomery	928
WCOV	20 AL	Montgomery	958
WAPT	16 MS	Jackson	754
narrow duct, strong.			
2030 unid bars ch 62, o/u KAKW	suspect of application for Cd Anahuac, NL 115 miles north.		
2130 WSWs	66 AL	Opelika	1023
October 30			
0115 WIIQ	41 AL	Demopolis	877
0130 WATL	36 GA	Atlanta	1104
WGNX	46 GA	Atlanta	1104
WUPA	69 GA	Atlanta	1100
0530 WJSP	28 GA	Columbus	1057
Local sign on at 5:45			
0600 WJTC	44 FL	Pensacola	842
0615 W50CF	50 AL	Mobile VCC	817
0700 WGBG	30 MS	Meridian	834
2000 unid bars ch 64 Laredo hdn,	suspect of application for Sabinas Hidalgo, NL 60 miles n-ne.		
2100 WBHS	50 FL	Tampa	1116
WTTA	38 FL	St. Petersburg	1116
WFTX	36 FL	Cape Coral	1142
WWWB	32 FL	Lakeland	1135
2130 WZVN	26 FL	Naples	1153
Florida gone by 2230, 26 and 50 pick to color.			

This was the best of the month of October comparing to previous months of October for:

First time to get Missouri and New Mexico.  
 Best number of days for the month:  
 Alabama 8  
 Arkansas 4  
 Missouri 3  
 New Mexico: 1, first time ever.  
 Oklahoma 5  
 Texas (500+) 17  
 Other days with opening to at least 500 miles: 5, 12, 13, 17,  
 23, 24, 26, 31.  
 73's Fernando

Mike Cherry, VE7SKA, Box 631, Ganges PO,  
 Salt Spring Is. BC V8K 2W2 CANADA

November 1998 Es GMT  
 10 0259 KWGN 2 CO 120°

Jeff Kruszka, 5024 S. Braxton Ave., Baton Rouge,  
 LA 70817

September 1998 tropo CDT  
 08 0721 WPXO 21 LA continuous ID, upper left 190  
 23 2225 K19DM 19 LA WBTR off air!  
 Floating over WMAH 95

October 1998 tropo  
 02 2123 KAQY 11 LA Color bars, ID on screen 125  
 11 1005 WNGM 34 GA the Box 515  
 WATL 36 GA WB 455  
 1129 WCIQ 7 AL APT ID 375  
 12 2018 KSNF 16 MO Full ID, "Joplin - Pittsburg" 495  
 2259 KOED 11 OK OETA ID 480  
 13 1949 KLRT 16 AR 305  
 KASN 38 AR 270  
 14 2207 KSNF 16 MO news, "KSN"  
 (twice in 2 days?!?) 495  
 2230 KSBH 52 OK ID on screen 505  
 16 2154 WTJP 60 AL TBN 390  
 27 2244 WAWDt 58 FL "Beach TV", Destin ads

November 1998 tropo CST  
 01 2245 WJSP 28 GA GPTV 390  
 WLTZ 38 GA "NBC 38" 390

Not much to report. On the two nights I got KSNF-16, hardly anything else was coming in from that area. Strange.

Danny Ogletthorpe, P.O. Box 6688, Shreveport, LA  
 71136-6688

August 1998 qw UTC  
 29 0330 WPXO 21 LA Minden 32

September 1998 Es on 1st, tropo rest  
 01 1528 KGAN 2 IA Cedar Rapids 672  
 03 0750 KNTS 17 LA Natchitoches/27,55 59  
 KAIN 55 LA  
 23 1400 KAQY 11 LA Columbia; ID bars 101

October 1998 tropo on 10th & 14th, Es rest  
 10 0305 KCRG 9 IA Cedar Rapids 672  
 0755 KWWL 7 IA Waterloo 702  
 0810 KYTV 3 MO Springfield, local off 335  
 0950 WKBT 8 WI Lacrosse; new tropo state 801  
 14 1535 KMBC 9 MO Kansas City 464  
 20 1420 unID 2 ON CTV  
 1429 CBFTI 2 PQ SRC  
 WGRZ 2 NY Buffalo 1091  
 1440 unID 4 ON CBC  
 1443 unID 3 Floater  
 1533 WJBK 2 MI Detroit 904  
 1544 CKCO2 2 ON Warton 1103  
 1720 KTWO 2 WY Casper 996  
 26 1640 CKPR 2 ON Thunder Bay; TBT 1130  
 2330 WJBK 2 MI 904

## Western TV DX

Victor Frank, K6FV, 12450 Skyline Blvd.,  
 Woodside, CA 94062-4558

Equipment: 5' screened dish @ 25', 1765' AMSL. HD-73 rotor, Radio Shack preamp, Icom R-7100, TV-R7000.

KION-46 was duplicated in last month's report resulting in a total of 60 instead of 61 stations identified by various means. There were some omissions and are some new ones this month, and a bunch of unIDs.

August-November 98 Audio Only ID  
 Ch. Freq/MHz CALL kW CA City of License km  
 15 481.73\* K15CX 19.9 Chico ABC 283  
 25 537.2505 KBTU-LP 20.5 Sacramento A1TV 158  
 53 709.75\* KAIL 2510 Fresno UPN 261  
 59 741.2495 KMSG 1350 Sanger TMD 261  
 61 753.2494 KPXF 2510 Porterville PAX 338  
 62 763.75\* KGTV-LP 11.7 Placerville TBN 184  
 \* Audio carrier frequency  $\pm 20$  kHz

August-November 98 Call Letter Keyer ID Only  
 15 477.2622 K15CO 9.12 Porterville 338  
 22 519.2626 K22DD San Jose 53

August-November 98 Misidentified or spurious?  
 23 525.2400 //KTNC-42 345°  
 24 531.2642 //KFTL-64 45°  
 28 555.2526 //K30BI (ID as KBI) 355°

Which brings my total IDs for this summer/fall to 68.

## New Zealand Channel 1

The F2-layer MUF between Northern CA and New Zealand has reached greater than 45 MHz on numerous occasions during October and November. A number of radio amateur contacts have, in fact, taken place on the 50 MHz radio amateur band. Mostly this has been weak stuff, not good enough for ID of their audio on 50.750, and I have no reports of anyone getting a picture.

I have abstracted from reports by Bob Magnani, K6QXY, near Sebastapol, CA, of those times when he reported very strong reception of the New Zealand channel 1 video carriers, which are on 45.240 (strongest here), 45.250 (weakest here), and 45.260 MHz. Times and dates are UTC, formatted mmddhhmm.

10080001 ZL video 45.240, 45.260 S9+20dB  
 10082055 ZL video 45.240, 45.250, 45.260 S9  
 10252233 ZL video 45.240, 45.250, 45.260 S9  
 11032056 ZL video 45.240, 45.250, 45.260 vy strg  
 11072328 ZL video 45.240, 45.250, 45.260 strong

## Postscript

Continuing our oft-interrupted comments of Doug Smith's answers to my questions in June 98 VUD.

How about non-broadcast TV?

There doesn't seem to be a huge amount of interest. There have been some reports of radio STLs in the VUD, though I believe that ended up in the now-defunct PSB column. There never was much interest. This stuff is pretty hard to DX because of the narrow beamwidths used, and the intermittent mobile nature of remote truck transmissions. (Sometimes it's hard for us at the stations to receive the remote trucks, even though we know where they are, they're pointing their antennas at us, and our receive antenna is 750' in the air!) Still, it would make for some interesting DXing if someone were to give it a try! Do double-check the regulations first; seems to me the ECPA covers remote pickups, which would mean it's now technically illegal to DX these!

There are additional identifying parts of a TV transmission... (VBI IDs, SAP). Is reception of any one of these alone sufficient?

If it serves to positively identify what you're receiving, yes. You are receiving signals transmitted by the TV station being claimed, and you're receiving them on the same frequency as they're using to broadcast to the general public.

Call letter identification is becoming a thing of the past in all radio services, except the amateur service. We're weird, being so proud of those funny number-letter combinations! Call letters will probably stick around to provide a way for the FCC to keep track of who's where (a key field for their databases), but I would be not at all surprised to see the legal ID regulations dropped for DTV and digital radio stations. Other forms of identification—quite likely, as part of the datastream—will take its place. If we want to keep DXing, we'll have to accept these other methods.

Now is the time to start, before most of the UHF channels are swallowed by digital and high definition TV.

QRM will certainly be getting worse on the UHF band. But in most parts of the country, there's still plenty of open space. I don't think DTV is going to make DXing impossible. I find Fernando Garcia's tentative report of WSB-DT [39] Atlanta especially interesting. Having seen some of these Fernando's UHF DX photos, I have no doubt many of these stations would have yielded a usable digital signal. Of Danny Ogletthorpe's E-skip photos in the May VUD, I think KVVU-5 and WTAE-4 would have probably yielded usable DTV signals. And yes, there will be DTV on low-band VHF.



## TV - 50 YEARS AGO

(Condensed from an article by Will Balin, Secretary-Treasurer of the Television Broadcasters Association, which appeared in the March 1949 "Radio Electronics" magazine. The demand for TV was amazing. Those lucky enough to live in areas with stations wanted more, everyone else simply WANTED.)

Television ... the wonder baby of 1948...has outgrown its infant britches and is now a gangling adolescent, rampaging across the U. S. Even the highly optimistic prophets, who a year ago predicted this with an air of caution, are surprised by the actuality. Television has thrust its way into virtually every populous section of the country. 46,000,000 are now within reach of television service. By the end of 1949 an additional 25,000,000 will be able to have television.

Television went through many years of struggle and disappointment to achieve the stature of public acceptance.

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Even twelve months ago it was almost wholly confined to a handful of communities. The number of television receivers owned by the public numbered less than 200,000. Only 16 television stations were tossing images from batwing to dipole in January, 1948, and these stations were scattered along the eastern seaboard, in limited areas of the midwest, and in one city of the west coast.

This was the calm before the television storm of 1948. Shortly thereafter, TV manufacturers began to work up steam on their production lines. Receivers, which in 1947 had been moving out of factories into stores at the rate of 10,000 or less a month, suddenly began to stream forward in a steady, unbroken flow.

The steady flow of TV sets became a gusher in January, 1948. In that month alone, 30,000 sets were turned out. By the end of 1948 receivers were coming off production lines at better than 130,000 a month.

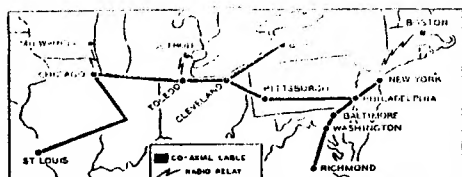
At the start of 1949 television programs were being received in 26 of the

nation's leading market areas. At the beginning of the year there were 51 stations on the air and at least 73 more were under construction. A total of well over 100 television stations in the U.S. by the end of this year (1949) is foreseen.

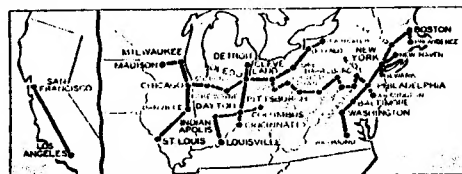
While television stations mushroomed across the country at an incredible rate, another service essential to the commercial well-being of the new industry was keeping pace... the installation of facilities for network telecasting.

The American Telephone and Telegraph Company, which pioneered in network services for radio, has also pioneered in television networking with great success. Two methods of program transmission are available: one the co-axial or concentric cable, and the other the microwave or radio relay.

Fourteen months ago the only network facilities available in the United States extended between New York City and Washington, D.C.. Then, AT&T opened its first radio relay (microwave) link between Boston and New York ... seven towers that beam programs in either direction.



Seven cities are now served by co-axial cables. Three more are connected to net by relay.



The Bell System has plans for adding terminations shown on the map above by next year.

By June, 1948, when the Republican National Convention opened in Philadelphia, AT&T had again extended its network route, opening a coaxial cable between Washington and Richmond, VA.

Another historic milestone was marked in networking when, early in October of 1948, the Bell System made available a network route extending from Buffalo to Cleveland, Toledo, Detroit, Chicago, Milwaukee and St. Louis. Early this year one of the great achievements in the history of television was effected when, on January 11, the AT&T drove another "golden spike" to link the East and the Midwest. Telecasts marking the linking of the above cities to New York, Philadelphia, Boston, Pittsburgh, Baltimore, Washington and Richmond in a 14-city network took place.

Most of the cities on the Eastern-to-Midwestern network are connected by co-axial cable, but three cities are linked by microwave relay. One group of relays connects New York City to Boston; another links Detroit

with Cleveland; and a third interconnects Chicago with Milwaukee.

Before the end of 1950, AT&T plans to provide additional facilities to extend television network service between the following cities: Los Angeles and San Francisco; Milwaukee and Madison; Buffalo and Rochester; Toledo and Dayton, Columbus and Cincinnati; as well as Indianapolis and Louisville.

Other connections include Boston and Providence; New York and New Haven; and links from Philadelphia to Lancaster, York, Reading, Harrisburg, Johnstown, and Pittsburgh along with Akron, Youngstown, and Wilmington.

Until co-axial cable and microwave relay facilities can be extended further, many cities with television service will be dependent upon a third method of connection; the kinescope or *Teletranscription* system. All of the present operating networks (NBC, CBS, ABC, and DuMont) have equipment for recording on film from the face of a cathode-

ray picture tube. These programs are delivered by air or rail to stations not yet linked to the live network microwave or co-axial cable feeds. Among cities using kinescopes are Los Angeles, San Francisco, New Orleans, Atlanta, Memphis, Houston and Seattle.

J. R. Poppele, president of the Television Broadcasters Association forecasts there will be 134 stations on the air by the end of 1949, 235 by the end of 1950, and about 335 by the end of 1951. He predicts the great rural areas of the nation will receive their television programs from transmitters which will tap into the national network links. These stations would not originate local programming, at least initially.

Wayne Coy, chairman of the FCC foresees 1,000 TV stations operating by 1955.

(Note: In addition to the stations listed on the map below, WAGA-TV and WSB-TV (channel 8) in Atlanta, and WTVJ in Miami were also operating at the time this article was published in 1949.)



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